

Primary and Secondary Antibodies

- Immunostaining Grade Antibodies
- Forensic Antisera
- IgG Fractions
- F(ab)₂ Fragments
- Fab Fragments
- Affinity Purified Antibodies
- Monoclonal Antibodies

Preparation

Highly purified antigens are used to hyperimmunize host animals. Most of these antigens are isolated from plasma, serum or cell lysates, using salt fractionation and various chromatographic procedures (gel filtration, ion-exchange and bioaffinity). Goats, mice, rabbits, rats, and/or sheep are injected with antigen suspended in Freund's Adjuvant.

Specific Antisera - Prepared by delipidation of bleed pools and immunoabsorption when necessary to insure specificity. Specific antisera are adjusted to standard titer, dialyzed into 0.02M sodium phosphate, 0.14M sodium chloride, pH 7.3, with 0.05% sodium azide, followed by filtration through 0.22µm filters and lyophilized.

Immunostaining Grade Antisera - Prepared by delipidation of bleed pools and immunoabsorption when necessary. They are supplemented with 1% bovine serum albumin and 0.09% sodium azide. They are presented as liquid.

Forensic Antisera - Specific anti-whole serum antisera further processed by affinity adsorption and neutralization to remove antibodies which cross-react to other common species. These antisera are adjusted to a standard 60 mg/ml, dialyzed into 0.02M sodium phosphate, 0.14M sodium chloride, pH 7.3, supplemented with 0.05% sodium azide followed by filtration through 0.22µm filters and lyophilized.

IgG Fractions - Prepared from specific antisera by ammonium sulfate precipitation and anion exchange chromatography. IgG fractions are adjusted to standard titer, dialyzed into 0.02M sodium phosphate, 0.14M sodium chloride, pH 7.3, filtered and lyophilized. Preservative is added.

Fab Fragments - Prepared from specific IgG fractions by controlled digestion with papain under partial reducing conditions. They are purified using anion exchange and bioaffinity chromatography, adjusted to standard concentration, dialyzed into 0.02M sodium phosphate with 0.14M sodium chloride, pH 7.3, filtered and lyophilized. Preservative is added.

F(ab)₂ Fragments - Prepared from specific IgG fractions by limited digestion with pepsin and chromatographic purification using gel filtration and bioaffinity chromatography. These purified antibodies are adjusted to standard concentration, dialyzed, filtered and lyophilized. Preservative is added.

Affinity Purified Antibodies - Prepared from specific IgG fractions by positive immunoabsorption onto solid phase antigens. Acidic elution is used to select high affinity antibodies. The resulting antibodies are adjusted to standard titer, dialyzed, filtered, and aseptically vialled. Preservative is added.

Monoclonal Antibodies - Supplied as ascites or tissue culture supernatant or purified monoclonal antibodies. Mouse hybridomas were produced by fusion of myeloma cells and spleen cells of Balb/C mice immunized with purified or partially purified antigen. Cells cloned from hybridomas are injected into mice to produce ascites or are grown in tissue culture to produce supernatants. Ascites and tissue culture supernatants are clarified by centrifugation and filtration and generally contain added sodium azide and bovine serum albumin. Purified antibodies are prepared using protein A or protein G bioaffinity chromatography and generally contain added sodium azide and bovine serum albumin.

Specificity

Antigen Specificity - Most products are tested using immunoelectrophoresis for the appropriate specificity. Products are tested with positive controls - antigen and related material with which they should react. Furthermore, they are tested against negative controls - material with which they should NOT react. Monoclonal antibodies and immunostaining grade antisera are tested for specificity in immunoblotting, immunostaining of cells or tissues, and/or ELISA.

Species Specificity - Products designated by "no cross species" demonstrate no cross-reactivity in immunoelectrophoresis to the IgG of the indicated species. Forensic antisera demonstrate no precipitin traces in Ouchterlony Double Diffusion or microtube precipitin assays to the whole sera of most species. Any other products must not be assumed to be cross-reactive unless indicated.

Potency

IgG Fractions and Specific Antisera - Demonstrate high antibody affinity and titer. Every lot is standardized to the same titer, but the standards may vary by specificity. Most are from 2-12 mg/ml antibody protein. Antibody protein is determined by measuring the immunoprecipitate produced at the antigen-antibody reaction equivalence point. Fab and F(ab)₂ Fragments are adjusted to the protein concentration determined from the titer of the source IgG fractions.

Immunostaining Grade Antisera - Tested in immunohistochemistry using indirect immunoperoxidase procedure for working dilution in the 1:50-1:100 range.

Forensic Antisera - Tested for potency in Ouchterlony Double Diffusion and microtube precipitin assays. They show precipitin reactions with highly diluted whole serum, but do not show precipitin traces with the whole sera of other common species. Test results are supplied with each lot of product.

Affinity Purified Antibodies - Demonstrate high titer and avidity. Most are standardized to 1.0 mg active antibody per ml determined by equivalence-point precipitation with purified antigen. Some may be standardized by immunoelectrophoresis using technical grade antigens.

Monoclonal Antibodies - Selected for high avidity. Products intended for immunohistochemistry are tested for proper working dilutions in immunostaining of blots, cell suspensions or tissue sections. Many are tested for ELISA titer. The recommended working dilutions for tissue staining and/or ELISA are reported in product inserts.

Purity

IgG Fractions - Tested for purity at 40 mg/ml by immunoelectrophoresis using anti-host species serum and anti-host species albumin. There may be traces of IgA, IgM and other gamma proteins, but no trace of albumin is present.

Fab and F(ab)₂ Fragments - Tested for purity at 20 mg/ml by immunoelectrophoresis using anti-host species serum and anti-host IgG Fc (γ specific). They demonstrate appropriate fragment precipitation, no trace of whole IgG, Fc or other serum proteins.

Affinity Purified Antibodies - These are IgG without traces of albumin as demonstrated by immunoelectrophoretic testing of antibodies at 10 mg/ml using anti-host species serum and anti-host species IgG.

Purified Monoclonal Antibodies - Tested for protein purity using laser scanning of reducing SDS gel electrophoretic patterns. Protein purities, which range from 97-99%, are reported on product inserts.

Storage

All Cappel monoclonal antibodies and immunostaining grade antisera have 1 year expiration dates.

Antibody products not labeled with an expiration date have a shelf life of a minimum of five years from manufacture date assuming the product is stored at the recommended conditions appearing on the label and accompanying insert. It is recommended that the final user routinely employs the appropriate controls to verify that the reagents perform satisfactorily for the user's specific applications.

Unopened, lyophilized products are stable when stored at 2-8°C or lower. Once reconstituted, they may be stored at the same temperature range for several weeks with preservative added, but only for a few days if preservative-free. They may be aliquoted and frozen at -20°C or lower for long term storage. Repeated freeze-thaw cycles are NOT recommended.

Unopened liquid products are stable when stored at 2-8°C. Once opened, they may be stored at 2-8°C for several weeks with preservative added, but only a few days when preservative-free. Immunostaining grade antisera, ascites and tissue culture supernatants may be aliquoted and frozen at -20°C or lower for long term storage. Glycerol (40% v/v) may be added to affinity purified antibodies, affinity purified fragments and purified monoclonal antibodies to prevent freezing and the products stored at -20°C for long term storage.

Monoclonal antibodies are presumed to be equivalent in epitope specificity and affinity since they are all derived from a clone of cells. However, the monoclonal antibodies provided in ascites contain some inherent antibodies of the host animals. Even the monoclonal antibodies purified from ascites can contain some inherent antibodies of the hosts. Use tissue culture supernatants or monoclonal antibodies purified from tissue culture supernatants to avoid this potential source of background.

CATALOG
NUMBER

Antibodies to Human Antigens

10601 0-5°C	ACTIN MONOCLONAL ANTIBODY Anti-Chicken Clone: 647 Isotype: mouse IgM Conc/Titer: 1:5-1:20 Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections. Supplied as clarified ascites diluted with Tris buffer with 1% BSA and 0.09% sodium azide.	1 ml
11150 0-5°C	ADRENOCORTICOTROPIC HORMONE POLYCLONAL ANTIBODY Anti-ACTH Host: rabbit Form: liquid Conc/Titer: 1:50-1:100 Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, formalin-fixed paraffin-embedded tissue sections and acetone-fixed frozen tissue sections.	0.25 ml
55109 0-5°C	ALBUMIN, HUMAN POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized Applications: Immunoblotting.	2 ml
55028 0-5°C	ALBUMIN, HUMAN POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (IgG) Applications: Immunoblotting.	5 ml
55110 0-5°C	ALBUMIN, HUMAN POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized Applications: Immunoblotting.	2 ml
55029 0-5°C	ALBUMIN, HUMAN POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized (IgG) Applications: Immunoblotting.	5 ml
10703 0-5°C	AMYLOID AA MONOCLONAL ANTIBODY Anti-Human Clone: REU-86.2 Isotype: mouse IgG _{2a} Conc/Titer: 1:5-1:20 Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, formalin-fixed paraffin-embedded tissue sections and acetone-fixed frozen tissue sections. Supplied as clarified ascites diluted with Tris buffer with 1% BSA and 0.09% sodium azide. The original immunogen was Apo-SAA purified from human serum. This antibody reacts with AA-amyloid and not with AL nor β ₂ M types.	1 ml

CATALOG
NUMBER

55111 α_1 -**ANTITRYPSIN** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunoblotting; ELISA.

55030 α_1 -**ANTITRYPSIN** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized (IgG)
Applications: Immunoblotting; ELISA.

Apolipoproteins

The original antigens were purified from human plasma lipoproteins. Mouse monoclonal antibodies which are Protein A purified from ascites are 97% protein pure. These antibodies demonstrate no cross-reactivity in ELISA when tested with other purified apolipoproteins and lipoproteins. The specificity is confirmed in Western Blot analysis except as noted.

59403 **APOLIPOPROTEIN AI** 0.5 mg
-20°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: 3F10
Isotype: mouse IgG_{2a}
Applications: ELISA; Immunoblotting (Western Blots); Tissue Staining.
This antibody reacts specifically with Apo AI in ELISA or immunoblotting and Apo AI in HDL in capture ELISA.
Purity: >97%
Supplied in 0.02M sodium phosphate, 0.15M sodium chloride, pH 7.0 with 0.05% sodium azide. Shipped frozen on dry ice.

59404 **APOLIPOPROTEIN AI** 0.5 mg
-70°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: 10 A8
Isotype: mouse IgG₁
Applications: ELISA; Capture ELISA; Immunoblotting (Western Blots); Tissue Staining.
This antibody reacts specifically with Apo AI in ELISA or immunoblotting and Apo AI in HDL in capture ELISA.
Purity: >97%
Supplied in 0.02M sodium phosphate, 0.15M sodium chloride, pH 7.0 with 0.05% sodium azide. Shipped frozen on dry ice.

59405 **APOLIPOPROTEIN AII** 0.5 mg
-20°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: 4 A2
Isotype: mouse IgG₁
Applications: ELISA; Immunoblotting (Western Blots); Tissue Staining.
This antibody reacts specifically with Apo AII in ELISA or immunoblotting and Apo AII in HDL in capture ELISA.
Purity: >97%
Supplied in 0.02M sodium phosphate, 0.15M sodium chloride, pH 7.0 with 0.05% sodium azide. Shipped frozen on dry ice.

CATALOG
NUMBER

59406 **APOLIPOPROTEIN AII** 0.5 mg
-20°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: 12 E12
Isotype: mouse IgG₁
Applications: ELISA; Immunoblotting (Western Blots); Tissue Staining.
This antibody reacts specifically with Apo AII in ELISA or immunoblotting and Apo AII in HDL in capture ELISA.
Purity: >97%
Supplied in 0.02M sodium phosphate, 0.15M sodium chloride, pH 7.0 with 0.05% sodium azide. Shipped frozen on dry ice.

59654 **APOLIPOPROTEIN (a)** 0.5 mg
-20°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: 12 C11
Isotype: mouse IgG₁
Applications: ELISA; Capture ELISA
This antibody reacts specifically with Apo(a) in ELISA or Apo(a) of Lp(a) in capture ELISA. Intended for ELISA and other assays for native Apo(a). Not recommended for immunoblotting or other methods for denatured Apo(a).
Purity: >97%
Supplied in 0.02M sodium phosphate, 0.15M sodium chloride, pH 7.0 with 0.05% sodium azide. Shipped frozen on dry ice.

59408 **APOLIPOPROTEIN (a)** 0.5 mg
-20°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: 4 F3
Isotype: mouse IgG₁
Applications: Immunoblotting (Western Blots).
This antibody reacts specifically with Apo(a) in immunoblotting. Not recommended for immunoblotting and other methods using denatured Apo(a).
Purity: >97%
Supplied in 0.02M sodium phosphate, 0.15M sodium chloride, pH 7.0 with 0.05% sodium azide. Shipped frozen on dry ice.

59409 **APOLIPOPROTEIN B100** 0.5 mg
-20°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: 2 B1
Isotype: mouse IgG₁
Applications: ELISA.
This antibody reacts specifically with Apo B100 in ELISA and in capture ELISA with Apo B100 LDL. Also, it reacts with Apo B48 in chylomicrons. Intended for ELISA. Not recommended for immunoblotting or other methods for denatured Apo B100.
Purity: >97%
Supplied in 0.02M sodium phosphate, 0.15M sodium chloride, pH 7.0 with 0.05% sodium azide. Shipped frozen on dry ice.

CATALOG
NUMBER

59410
-70°C

APOLIPOPROTEIN B100 0.5 mg
MONOCLONAL ANTIBODY
Anti-Human
Clone: 2 B4
Isotype: mouse IgG_{2b}
Applications: ELISA; Western Blots; Tissue Staining.
This antibody reacts specifically with Apo B100 in ELISA and immunoblotting and with Apo B100 LDL. Also, it reacts with Apo B48 in chylomicrons in capture ELISA.
Purity: >97%
Supplied in 0.02M sodium phosphate, 0.15M sodium chloride, pH 7.0 with 0.05% sodium azide. Shipped frozen on dry ice.

59411
-20°C

APOLIPOPROTEIN B100 0.5 mg
MONOCLONAL ANTIBODY
Anti-Human
Clone: 6 H12
Isotype: mouse IgG₁
Applications: ELISA; Western Blots; Tissue Staining.
This antibody reacts specifically with Apo B100 in ELISA and immunoblotting and with Apo B100 LDL in capture ELISA. It does not react with Apo B48.
Purity: >97%
Supplied in 0.02M sodium phosphate, 0.15M sodium chloride, pH 7.0 with 0.05% sodium azide. Shipped frozen on dry ice.

59413
-20°C

APOLIPOPROTEIN CI 0.5 mg
MONOCLONAL ANTIBODY
Anti-Human
Clone: 10 F4
Isotype: mouse IgG_{2b}
Applications: ELISA; Immunoblotting (Western Blots); Tissue Staining.
This antibody reacts specifically with Apo CI in ELISA or immunoblotting and Apo CI in HDL in capture ELISA.
Purity: >97%
Supplied in 0.02M sodium phosphate, 0.15M sodium chloride, pH 7.0 with 0.05% sodium azide. Shipped frozen on dry ice.

59009
0-5°C

APOLIPOPROTEIN E 0.5 mg
MONOCLONAL ANTIBODY
Anti-Human
Clone: 9 H8
Isotype: mouse IgG₁
Applications: ELISA; Immunoblotting (Western Blots); Tissue Staining.
This antibody reacts specifically with Apo E in ELISA or immunoblotting.
Purity: >97%
Supplied in 0.02M sodium phosphate, 0.15M sodium chloride, pH 7.0 with 0.05% sodium azide. Shipped frozen on dry ice.

CATALOG
NUMBER

59010
-20°C

APOLIPOPROTEIN E 0.5 mg
MONOCLONAL ANTIBODY
Anti-Human
Clone: 1 H4
Isotype: mouse IgG₁
Applications: ELISA; Immunoblotting (Western Blots); Tissue Staining.
This antibody reacts specifically with Apo E in ELISA or immunoblotting.
Purity: >97%
Supplied in 0.02M sodium phosphate, 0.15M sodium chloride, pH 7.0 with 0.05% sodium azide. Shipped frozen on dry ice.

59762
-20°C

APOLIPOPROTEIN H 0.5 mg
MONOCLONAL ANTIBODY
(Anti-β-Glycoprotein I)
Anti-Human
Clone: 5 F7
Isotype: mouse IgG₁
Applications: ELISA; Immunoblotting (Western Blots); Tissue Staining.
This antibody reacts specifically with Apo H in ELISA or immunoblotting (non-reducing conditions).
Purity: >97%
Supplied in 0.02M sodium phosphate, 0.15M sodium chloride, pH 7.0 with 0.05% sodium azide. Shipped frozen on dry ice.

Autoimmune Antigens

Small nuclear RNA's (snRNA or URNA's) are metabolically stable RNA's which contain a unique cap structure at their 5'-ends. They are organized into ribonucleoprotein particles (U snRNP's) of which at least six different categories have been identified (U1-U6). There are at least 26 polypeptide constituents of the major snRNP's, U1, U2, U5 and U4/U6 from HeLa cells. Nine of these proteins present in each of the individual snRNP's are designated as "Sm" or "core" proteins. These include the BB' doublet, the D1/D2/D3 triplet and the E, F and G polypeptides. snRNP's contain some characteristic proteins, i.e. U1 snRNP contains at least three unique polypeptides with apparent molecular weight of 70 kDa (U1 70 kDa), 32 kDa (U1A) and 22 kDa (U1C). Characteristic for U2 snRNP particles is the presence of proteins of 29 kDa (U2A') and 27 kDa (U2B''). Ro and La RNP complexes are predominantly localized in the cytoplasm. La protein is a phosphoprotein with a molecular weight of 47 kDa. Ro RNP particles consist of small Y-RNA's, the "core" polypeptides, Ro60 and Ro52, and distinct analogous proteins depending on the origin of the cells.

Antibodies to these autoimmune antigens are characterized in immunofluorescence and immunoblotting. Intended for use in immunofluorescence and/or immunoblotting. All autoimmune antibodies precipitate the antigenic proteins against which they are directed with the exception of the anti-La antibody 4B6 and the anti-Ro antibodies 4C6 and 1D8. They are supplied as clarified, lyophilized tissue culture supernatant with 1% BSA and 0.09% sodium azide.

References

- Bochnig, P., et al., Eur. J. Biochem., **168**, 461-467 (1987).
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- Reuter, R., et al., Proc. Natl. Acad. Sci. USA, **83**, 8689-8693 (1986).
- Habets, W.J., et al., J. Immunol., **143**, 2560-2566 (1989).
- Simpson, G.G., et al., Nucleic Acids Research, **19**, 5213-5217 (1991).

CATALOG
NUMBER

57028 AUTOIMMUNE ANTIGEN ³mG CAP 1 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Human
Clone: H20
Isotype: mouse IgG₁
Conc/Titer: 1:5-1:10
Applications: Immunoblotting; Immunofluorescence.
This antibody is directed against the G polypeptide of the 5'-end of U snRNA (small nuclear RNA's).

57029 AUTOIMMUNE ANTIGEN 1 ml
0-5°C
Sm PROTEINS BB'
MONOCLONAL ANTIBODY
Anti-Human
Clone: ANA125
Isotype: mouse IgG_{2a}
Conc/Titer: 1:5-1:10
Applications: Immunoblotting; Immunofluorescence.
This antibody is directed against the BB' doublet core protein of snRNP (ribonucleoprotein particles).

57030 AUTOIMMUNE ANTIGEN 1 ml
0-5°C
Sm PROTEIN D1
MONOCLONAL ANTIBODY
Anti-Human
Clone: ANA127
Isotype: mouse IgA
Applications: Immunoblotting; Immunofluorescence.
This antibody is directed against the D1 core protein fragment of snRNP (ribonucleoprotein particles).

57031 AUTOIMMUNE ANTIGEN 1 ml
0-5°C
Sm PROTEIN BB' and D1
MONOCLONAL ANTIBODY
Anti-Human
Clone: ANA126
Isotype: mouse IgA
Applications: Immunoblotting; Immunofluorescence.
This antibody is directed against both the BB' and D1 core protein portions of snRNP (ribonucleoprotein particles).

57032 AUTOIMMUNE ANTIGEN 1 ml
0-5°C
Sm PROTEIN BB' and D1
MONOCLONAL ANTIBODY
Anti-Human
Clone: ANA128
Isotype: mouse IgG_{2b}
Applications: Immunoblotting; Immunofluorescence.
This antibody is directed against both the BB' and D1 core protein portions of snRNP (ribonucleoprotein particles).

57033 AUTOIMMUNE ANTIGEN 1 ml
0-5°C
U1-70K PROTEIN
MONOCLONAL ANTIBODY
Anti-Human
Clone: H111
Isotype: mouse IgG_{2a}
Applications: Immunoblotting; Immunofluorescence.
This antibody is directed against the U1 70 kDa polypeptide of U1 snRNP protein.

CATALOG
NUMBER

57034 AUTOIMMUNE ANTIGEN 1 ml
0-5°C
U1A PROTEIN
MONOCLONAL ANTIBODY
Anti-Human
Clone: H304
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunofluorescence.
This antibody is directed against the U1 32 kDa polypeptide of U1 snRNP protein.

57035 AUTOIMMUNE ANTIGEN 1 ml
0-5°C
U1A and U2B'' PROTEINS
MONOCLONAL ANTIBODY
Anti-Human
Clone: 9A9
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunofluorescence.
This antibody is directed against both the U1 32 kDa polypeptide of the U1 snRNP protein and the U2B'' 27 kDa polypeptide of the U2 snRNP protein.

57036 AUTOIMMUNE ANTIGEN 1 ml
0-5°C
U2B'' PROTEIN
MONOCLONAL ANTIBODY
Anti-Human
Clone: 4G3
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunofluorescence.
This antibody is directed against the U2B'' 27 kDa polypeptide of the U2 snRNP protein.

57037 AUTOIMMUNE ANTIGEN 1 ml
0-5°C
La (SS-B) PROTEIN
MONOCLONAL ANTIBODY
Anti-Human
Clone: 4B6
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunofluorescence.
This antibody is directed against the 47 kDa La RNP phosphoprotein.

57038 AUTOIMMUNE ANTIGEN 1 ml
0-5°C
Ro52 (SS-A) PROTEIN
MONOCLONAL ANTIBODY
Anti-Human
Clone: 4C6
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunofluorescence.
This antibody is directed against the Ro52 core polypeptide of Ro RNP, a small Y-RNA localized in the cytoplasm.

57039 AUTOIMMUNE ANTIGEN 1 ml
0-5°C
Ro60 (SS-A) PROTEIN
MONOCLONAL ANTIBODY
Anti-Human
Clone: 1D8
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunofluorescence.
This antibody is directed against the Ro60 core polypeptide of Ro RNP, a small Y-RNA localized in the cytoplasm.

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CATALOG
NUMBER

57040 AUTOIMMUNE ANTIGEN 1 ml
0-5°C
Ro60 (SS-A) PROTEIN
MONOCLONAL ANTIBODY
Anti-Human
Clone: 2G10
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunofluorescence.
This antibody is directed against the Ro60 core polypeptide of Ro RNP, a small Y-RNA localized in the cytoplasm.

CATALOG
NUMBER

10902 B CELLS 1 ml
0-5°C
MONOCLONAL ANTIBODY
(Anti-CD 45R)
Anti-Human
Clone: MB3
Isotype: mouse IgG_{2b}
Conc/Titer: 1:5-1:20
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen and formalin-fixed paraffin-embedded tissue sections.
Supplied as clarified tissue culture supernatants with 1% BSA and 0.09% sodium azide. This immunogen was isolated from human lymphocyte membranes. This antibody reacts with 31 kDa lymphocyte cytoplasmic antigen in immunoblotting, with all B cells, activated T-lymphocytes and histiocytes.

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Primary & Secondary Antibodies

B Cells

A panel of monoclonal antibodies which stain different subsets of B cells. They are intended for use in immunoblotting (except item 10907), and immunostaining of cell suspensions and acetone-fixed frozen or formalin-fixed paraffin-embedded tissue sections. They are supplied as clarified tissue culture supernatants (except item 10907) with 1% BSA and 0.09% sodium azide. See also Common Leukocyte Antigen and T Cells.

References

Poppema, S., et al., *Am. J. Pathol.*, **127**, 418-429 (1987).
Hall, P.A., et al., *J. Clin. Pathol.*, **40**, 151-156 (1987).
Hall, P.A., et al., *J. Clin. Pathol.*, **40**, 870-873 (1987).
Norton, A.J. and Isaacson, P.G., *Histopathology*, **10**, 1243-1260 (1986).
Norton, A.J. and Isaacson, P.G., *Am. J. Pathol.* **128**, 225-240 (1987).

10900 B CELLS 1 ml
0-5°C
MONOCLONAL ANTIBODY
(Anti-CD45R)
Anti-Human
Clone: MB1
Isotype: mouse IgG₁
Conc/Titer: 1:5-1:40
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen and formalin-fixed paraffin-embedded tissue sections.
Supplied as clarified tissue culture supernatants with 1% BSA and 0.09% sodium azide. This immunogen was isolated from human lymphocyte membranes. This antibody reacts with 100, 110, and 200 kDa lymphocyte membrane antigens, all B cells and up to 50% of mature T-lymphocytes.

10901 B CELLS 1 ml
0-5°C
MONOCLONAL ANTIBODY
(Anti-CD 45R)
Anti-Human
Clone: MB2
Isotype: mouse IgG₁
Conc/Titer: 1:5-1:40
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen and formalin-fixed paraffin-embedded tissue sections.
Supplied as clarified tissue culture supernatants with 1% BSA and 0.09% sodium azide. This immunogen was isolated from human lymphocyte membranes. This antibody reacts with 28 kDa lymphocyte cytoplasmic antigen in immunoblotting and with all B cells.

10904 B CELLS pan 1 ml
0-5°C
MONOCLONAL ANTIBODY
(Anti-CD 20)
Anti-Human
Clone: B-ly-1
Isotype: mouse IgG₁
Conc/Titer: 1:5-1:20
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen and formalin-fixed paraffin-embedded tissue sections.
Supplied as clarified tissue culture supernatants with 1% BSA and 0.09% sodium azide. This immunogen was isolated from membranes of EBV-transformed human lymphoblastoid cells. This antibody reacts with 35 kDa lymphocyte membrane antigen in immunoblotting and with all B cells.

10906 B CELLS sub 1 ml
0-5°C
MONOCLONAL ANTIBODY
(Anti-CD21)
Anti-Human
Clone: B-ly-4
Isotype: mouse IgG₁
Conc/Titer: 1:5-1:10
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen and formalin-fixed paraffin-embedded tissue sections.
Supplied as clarified tissue culture supernatants with 1% BSA and 0.09% sodium azide. This immunogen was isolated from membranes of EBV-transformed human lymphoblastoid cells. This antibody reacts with 140 kDa membrane protein in immunoblotting and with a subpopulation of B cells and dendritic reticulum cells.

10907 B CELLS 1 ml
0-5°C
MONOCLONAL ANTIBODY
(Anti-CD 19)
Anti-Human
Clone: BC-3
Isotype: mouse IgG₁
Conc/Titer: 1:5-1:20
Applications: Immunostaining of cell suspensions, acetone-fixed frozen and formalin-fixed paraffin-embedded tissue sections.
Supplied as clarified tissue culture supernatants with 1% BSA and 0.09% sodium azide. This immunogen was isolated from membranes of chronic lymphocyte leukemia cells. This antibody reacts 97-100% with most pre-B and B-cell lines, but not with T cell and monocytic cell lines. Reaction with lymphocytes in flow cytometry: human tonsil 70%; spleen 35%; bone marrow 12%; and PBLs 10%.

CATALOG
NUMBER

11182 **BOMBESIN** 0.25 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Frog
Host: rabbit
Form: liquid
Applications: Immunostaining of cell suspensions, acetone-fixed frozen and formalin-fixed paraffin-embedded tissue sections.
Rabbits were inoculated with *Rana* antigen. This antibody cross-reacts with human, mouse and rat systems.

55122 **C-REACTIVE PROTEIN** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-CRP)
Anti-Human
Host: sheep
Form: lyophilized
Applications: Immunodetection.

55035 **C-REACTIVE PROTEIN** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-CRP)
Anti-Human
Host: sheep
Form: lyophilized (IgG)
Applications: Immunodetection.

10704 **E-CADHERIN** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
(Anti-L-CAM; Anti-Uvomorulin)
Anti-Human
Clone: 6 F9
Isotype: mouse IgG₁
Conc/Titer: 1:5-1:20
Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen and formalin-fixed paraffin-embedded tissue sections.
Supplied as cell supernatant purified by ammonium sulfate precipitation with 1% BSA and 0.09% sodium azide.
This antibody reacts to E-cadherin (epithelial Ca²⁺ dependent cell adhesion molecule) in ELISA and show specific reaction to teh 120 kDa and 80 kDa ARC-1 polypeptides in immunoblotting.
Ref.: Frixen, U.H., et al., *J. Cell Biolog*, **113**, 173-185 (1991).
2. Umbas, R., et al., *Cancer Res.*, **52**, 5104-5109 (1992).

10028 **E-CADHERIN** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
(Anti-L-CAM; Anti-Uvomorulin)
Anti-Human
Clone: 5 H9
Isotype: mouse IgG₁
Conc/Titer: 1:5-1:20
Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen and formalin-fixed paraffin-embedded tissue sections.
Supplied as cell supernatant purified by ammonium sulfate precipitation with 1% BSA and 0.09% sodium azide.
This antibody reacts to E-cadherin (epithelial Ca²⁺ dependent cell adhesion molecule) in ELISA and show specific reaction to teh 120 kDa and 80 kDa ARC-1 polypeptides in immunoblotting.

CATALOG
NUMBER

11155 **CALCITONIN** 0.25 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
Form: liquid
Applications: Immunostaining of cell suspensions, acetone-fixed frozen and formalin-fixed paraffin-embedded tissue sections.
This antiserum cross-reacts to mouse, rat and rabbit.

NEW 12002 **CAPSAICIN RECEPTOR** 50 µl
0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
BSA Conjugated
Working dilution: 1:1500-2500

10800 **CARCINOEMBRYONIC ANTIGEN** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
(Anti-CEA)
Anti-Human
Clone: PARLAM4
Isotype: mouse IgG₁
Conc/Titer: 1:5-1:10
Applications: immunoblotting; immunostaining of cell suspensions, acetone-fixed frozen and formalin-fixed paraffin-embedded tissue sections.
This antibody reacts specifically in immunoblotting with a single band of 180 kDa human CEA. It does not react with biliary glycoprotein (BGP) nor non-specific cross-reacting antigen 1/11 (NCA). CEA may be found in normal epithelia and in other tissue of non-neoplastic diseases, but generally associated with a large variety of carcinomas with oncofetal characteristics.
Ref.: Verstijnen, C.P.H.J., et al., *Anti-Cancer Research*, **6**, 97-104 (1986).

55114 **CERULOPLASMIN** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunodetection.

NEW **CHAPSYN-110**
POLYCLONAL ANTIBODY
Anti-Human
Host: rabbit
Form: affinity purified, lyophilized
12007 50 µl
12008 200 µl

55115 **CHORIONIC GONADOTROPIN** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-hCG)
Anti-Human
Host: rabbit
Form: lyophilized
Applications: Immunodetection.

CATALOG NUMBER

11424 **CHORIONIC GONADOTROPIN** 0.25 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-hCG)
Anti-Human
Host: rabbit
Form: liquid
Conc/Titer: 1:50-1:100
Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen sections, and formalin-fixed paraffin-embedded tissue sections.
 This antiserum cross-reacts with rat systems.

10810 **β-CHORIONIC GONADOTROPIN** 1 ml
 0-5°C **MONOCLONAL ANTIBODY**
 (Anti-β-hCG)
Anti-Human
Clone: 1039
Isotype: IgG₁
Applications: ELISA.
 In immunohistochemistry, this antibody reacts with placental trophoblasts and weakly with pituitary luteotrophs. In ELISA, it shows weak cross-reactivity to β-LH but no reaction to FSH nor to TSH. It is supplied as clarified ascites diluted with Tris buffer with 0.09% sodium azide and 1% BSA.
Ref.: Bosman, F.T., et al., *Histopathology*, **4**, 673-684 (1980).

11422 **CHROMOGRANIN A & B** 0.25 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
Form: liquid
Conc/Titer: 1:50-1:100
Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen sections, and formalin-fixed paraffin-embedded tissue sections.
 The original antigen was isolated from cytoplasm of human pheochromocytoma. The antiserum cross-reacts to mouse, rabbit and rat.

10702 **CHROMOGRANIN A** 1 ml
 0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: LK2 H10
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining.
 The original antigen was isolated from cytoplasm of human pheochromocytoma. The antibody is specific to 68 kDa chromogranin A in immunoblotting. In tissue staining, it reacts with neurohormonal peptide producing cells. The antigen is normally located in secretory granules, so poorly granulated endocrine cells stain weakly or not at all. It demonstrates cross-reactivity with monkey, rat, rabbit, and swine. It is supplied as clarified ascites diluted with Tris buffer with 0.09% sodium azide and 1% BSA.
Ref.: Lloyd, R.V., et al., *Science*, **222**, 628-630 (1983).

NEW **CLC-2**
POLYCLONAL ANTIBODY
Anti-Human
Host: rabbit
Form: affinity purified, lyophilized
 Raised against CLC-2 888-906, corresponding to residues 888-906 of rat CLC-2
 12080 50 µl
 12024 200 µl

CATALOG NUMBER

10760 **COLLAGEN TYPE IV** 0.25 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
Form: liquid
Conc/Titer: 1:50-1:100
Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen sections, and formalin-fixed paraffin-embedded tissue sections.
 The original antigen was isolated from extracellular proteins of human placenta. It reacts specifically to collagen type IV in ELISA. At optimal dilutions, it reacts exclusively to collagen of basement membranes in immunohistochemistry. It demonstrates some reaction in immunoblotting to collagen type V at high antibody and/or antigen concentrations. It shows cross-reactivity with the basement membrane of most species. It is supplied as delipidated antiserum with 1% BSA and 0.09% sodium azide.
Ref.: Visser, R., et al., *Histopathology*, **10** 171-180 (1986).

10710 **COLLAGEN TYPE IV** 1 ml
 0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: 1042
Isotype: mouse IgG_{2b}
Conc/Titer: 1:50-1:20
Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen sections, and formalin-fixed paraffin-embedded tissue sections.
 The original antigen was isolated from extracellular proteins of human placenta. The antibody is specific to collagen type IV in ELISA and to basement membrane in immunohistochemistry. It is supplied as clarified ascites diluted with Tris buffer with 1% BSA and 0.09% sodium azide.
Ref.: Havenith, M.G., et al., **87**, 123-128 (1987).

10915 **COMMON LEUKOCYTE ANTIGEN** 1 ml
 0-5°C **MONOCLONAL ANTIBODY**
 (Anti-CLA)
Anti-Human
Clone: BRA55
Isotype: mouse IgG₁
Conc/Titer: 1:10-1:40
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen sections, and formalin-fixed paraffin-embedded tissue sections.
 The original antigen was isolated from the membrane of human lymphocytes. This antibody reacts with 100, 110, 190, and 200 kDa lymphocyte membrane proteins. It reacts with all B-cells, T-cells and histiocytes. It is supplied by clarified tissue culture supernatant with 0.09% sodium azide and 1% BSA.

55116 **COMPLEMENT C1q** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-C1q)
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunoblotting.

CATALOG
NUMBER

55032 **COMPLEMENT C1q** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-C1q)
Anti-Human
Host: goat
Form: lyophilized (IgG)
Applications: Immunoblotting.

55117 **COMPLEMENT C3** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-C3)
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunoblotting.

55033 **COMPLEMENT C3** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-C3)
Anti-Human
Host: goat
Form: lyophilized (IgG)
Applications: Immunoblotting.

55062 **COMPLEMENT C3** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-C3)
Anti-Human
Host: goat
Form: lyophilized (F(ab')₂)
Applications: Immunoblotting.

55119 **COMPLEMENT C4** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-C4)
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunoblotting.

55034 **COMPLEMENT C4** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-C4)
Anti-Human
Host: goat
Form: lyophilized (IgG)
Applications: Immunoblotting.

CATALOG
NUMBER

55120 **COMPLEMENT C5** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-C5)
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunoblotting.

55141 **COMPLEMENT C6** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-C6)
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunoblotting.

55142 **COMPLEMENT C7** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-C7)
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunoblotting.

55143 **COMPLEMENT C8** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-C8)
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunoblotting.

55121 **COMPLEMENT C9** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-C9)
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunoblotting.

Cytokeratins

Cytokeratins are a family of intermediate filament proteins which are represented in humans by at least 19 different polypeptides ranging from 40 to 68 kDa. These polypeptides occur in cell type-specific combinations that vary with the state of differentiation. The cytokeratin expressions in epithelial tumors are usually identical or closely similar to the pattern in the cell of origin.

Monoclonal antibodies to cytokeratins are supplied as clarified tissue culture supernatants or ascites. Polyclonal antisera are clarified and, if necessary, immunoabsorbed to remove cross-reactives. They are clarified with 1% bovine serum albumin and 0.09% sodium azide.

The specificity and potency of products are tested by several screening methods including immunodiffusion, ELISA, immunoblotting and/or immunohistochemistry. Typical working dilutions in immunohistochemistry are 1:5 to 1:20 for monoclonal antibodies and 1:50 to 1:100 for antisera.

References

- Ramaekers, F.C.S., et al., *Advances in Immunohistochemistry*, DeLellis, R.A. (Ed.), Raven Press, New York, Chp. 6, 133-163 (1988).
 Moll, R., et al., *Cell*, **31**, 11-24 (1982).
 Cooper, D., et al., *Lab. Invest.*, **52**, 243-256 (1985).
 Achtstatter, T., et al., *J. Histochem. Cytochem.*, **33**, 415-426 (1985).
 Moll, R., et al., *Lab. Invest.*, **49**, 599-610 (1983).

10525 CYTOKERATIN 4

0-5°C MONOCLONAL ANTIBODY

Anti-Human
Clone: 6B10

Isotype: mouse IgG₁

Applications: Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections.

The original antigen was prepared from human esophagus. The antibody is specific to 59 kDa cytokeratin 4 in immunoblotting. It stains non-cornifying squamous epithelia (also stained by antibodies cat. no. 10523 and 10524). In contrast to antibodies to cytokeratin 13, this antibody reacts with the superficial cells of the cornea and ciliated pseudo-stratified epithelium of bronchi and, focally, with ductal epithelial cells. It is cross-reactive with keratin of most mammals including mouse, rabbit, and rat. It is supplied as tissue culture supernatant.

Ref.: 1. Muijen, G.N.P., et al., *Exp. Cell Res.*, **162**, 91-113 (1986). 2. Weikel, W., et al., *Virchows Arch.*, **B 54**, 98-110 (1987). 3. Steijlen, P.M., et al., *Arch. Dermatol. Res.*, **285**, 221-226 (1993).

1 ml

10521 CYTOKERATIN 5,8

0-5°C MONOCLONAL ANTIBODY

Anti-Human
Clone: RCK 102

Isotype: mouse IgG₁

Applications: Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections.

The original antigen was prepared from human lung tumore cells. The antibody reacts with 58 and 52.2 kDa cytokeratins 5 and 8 in immunoblotting and with virtually all epithelial cell types. It is not reactive in non-epithelial tissues. It shows cross-reactivity with keratin from most mammals including mouse, rabbit and rat. Pepsin, pronase, or trypsin proteolytic treatment may be necessary for formalin-fixed paraffin-embedded sections (embedding and formalin fixation can give antigen denaturation or masking so results on paraffin-embedded sections should be evaluated cautiously). It is supplied as clarified tissue culture supernatant.

Ref.: 1. Broers, J.L.V., et al., *J. Cell Science*, **83**, 37-60 (1986). 2. Eyken, P van, et al., *Human Path.*, **21**, 302-308 (1990).

1 ml

10522 CYTOKERATIN 7

0-5°C MONOCLONAL ANTIBODY

Anti-Human
Clone: RCK 105

Isotype: mouse IgG₁

Applications: Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections.

The original antigen was purified from human bladder cancer cell line T24. This antibody is specific to 54 kDa cytokeratin 7 in immunoblotting. Keratin 7 occurs in the columnar and glandular epithelium of the lung, cervix, breast, bile ducts, larger collecting ducts of the kidney and in mesothelium, but is absent from gastrointestinal epithelium, hepatocytes, proximal and distal tubules of the kidney and myoepithelium. Keratin 7 is not detected in the stratified epithelia of the skin, tongue, esophagus, or cervix, but is strongly stained in urinary bladder transitional epithelium. It is cross-reactive with keratin from most mammals including hamster, mouse, rabbit, and rat. It is supplied as clarified tissue culture supernatant.

Ref.: 1. Ramaekers, F., et al., *Exp. Cell Res.*, **170**, 235-249 (1987). 2. Fischer, H.P., et al., *Am. J. Path.*, **127**, 530-537 (1987). 3. Asborn, M., et al., *Lab. Invest.*, **55**, 497-504 (1986).

1 ml

10526 CYTOKERATIN 8

0-5°C MONOCLONAL ANTIBODY

Anti-Human
Clone: M20

Isotype: mouse IgG₁

Applications: Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections.

The original antigen was purified from human breast cancer cell line McF7. This antibody is specific to 52.2 kDa cytokeratin 8 in immunoblotting and to epithelial cells (generally in combination with cytokeratin 7, 18 and 19). Cytokeratins 7, 8, 18 and 19 are absent from squamous epithelia and do not occur in combination in several glandular epithelia cells. The antibody is cross-reactive with keratin from most mammals. It is supplied as clarified tissue culture supernatant.

Ref.: 1. Edwards, B.F., et al., *World J. Urology*, **5**, 123-127 (1987). 2. Muijen, G.N.P. van, et al., *Lab. Invest.*, **57**, 4, 359-369 (1987).

1 ml

10502 CYTOKERATIN 8,18,19

0-5°C MONOCLONAL ANTIBODY

Anti-Human
Clone: NCL 5D3

Isotype: mouse IgG_{2a}

Applications: Immunoblotting; Immunostaining.

The original antigen was prepared from human breast cancer cell line McF7. The antibody reacts with 52.2 kDa, 45 kDa, and 40 kDa cytokeratins 8, 18, and 19 in immunoblotting and recognizes all simple epithelia including glandular epithelium, e.g. thyroid, female breast, gastrointestinal tract, respiratory tract, and urogenital tract. It does not react with stratified squamous epithelium from any site. It exhibits no significant reactivity with mouse, rabbit or rat tissues. It is very effective in staining formalin-fixed, paraffin-embedded sections (pepsin or pronase pretreated). It is supplied as clarified ascites.

Ref.: Angus, B., et al., *J. Path.*, **153**, 377-384 (1987).

1 ml

CATALOG
NUMBER

10501 **CYTOKERATIN 10** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: RKSE 60
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections. The original antigen was prepared from human epidermis. The antibody reacts to 56.6 kDa cytokeratin 10 in immunoblotting. It specifically stains keratinizing squamous epithelia. This antibody may be applied in research of skin diseases because it reacts only with the keratinizing (supra-basal) cells of the epidermis and not with the basal cells. It is cross-reactive with keratin from most mammals including mouse, rabbit, and rat. It is supplied as clarified tissue culture supernatant.
Ref.: 1. Herman, C., et al., *Am. J. Path.*, **120**, 419-426 (1985). 2. Smedts, F., et al., *Am. J. Path.*, **136**, 657-668 (1990).

11414 **CYTOKERATIN 10** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: DE K10
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections and formalin-fixed, paraffin-embedded tissue sections (pronase or trypsin pretreated). The original antigen was prepared from human epidermis. The antibody reacts to 56.6 kDa cytokeratin 10 in immunoblotting and to keratinizing cells. It is cross-reactive with keratin of most mammals including bovine, mouse, rabbit and rat. It is supplied as clarified tissue culture supernatant.
Ref.: Ivanyi, D., et al., *J. Path.*, **159**, 7-12 (1989).

10523 **CYTOKERATIN 13** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: 1C7
Isotype: mouse IgG_{2a}
Applications: Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections. The original antigen was prepared from human esophagus cells. The antibody reacts to 54 kDa cytokeratin 13 in immunoblotting and to keratin 13 present in non-cornifying squamous epithelia and in transitional epithelium of the bladder. Cytokeratin 13 occurs in some cells within complex epithelia tissues. The antibody is cross-reactive with keratin from most mammals including mouse, rabbit and rat. It is supplied as clarified tissue culture supernatant.
Ref.: 1. Muijen, G.N.P. van, et al., *Exp. Cell Res.*, **162**, 97-113 (1986).
2. Kopan, R., et al., *J. Cell Biol.*, **105**, 427-440 (1987).

CATALOG
NUMBER

10524 **CYTOKERATIN 13** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: 2D7
Isotype: mouse IgG_{2b}
Applications: Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections. The original antigen was prepared from human esophagus. The antibody reacts to 54 kDa cytokeratin 13 in immunoblotting and cytokeratin 13 present in non-cornifying squamous epithelia and in transitional epithelium of the bladder. Cytokeratin 13 occurs in some cells within complex epithelia tissues. The antibody is cross-reactive with keratin from most mammals including mouse, rabbit and rat. It is supplied as clarified tissue culture supernatant.
Ref.: 1. Muijen, G.N.P. van, et al., *Exp. Cell Res.*, **162**, 97-113 (1986).
2. Kopan, R., et al., *J. Cell Biol.*, **105**, 427-440 (1987).

10003 **CYTOKERATIN 14** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: RCK 107
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections. The antibody reacts to 50 kDa cytokeratin 14 in immunoblotting and stains cytokeratin 14 in basal cells of larynx, esophagus, trachea, bladder, prostate, cervix, vagina, breast acini, skin, and sweat glands in immunohistochemistry. It is supplied as clarified tissue culture supernatant.
Ref.: 1. Wetzels, R.H.W., et al., *Am. J. Path.*, **134**, 571-579 (1989).
2. Smedts, F., et al., *Am. J. Path.*, **141**, 497-511 (1992).

10500 **CYTOKERATIN 18** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: RGE 53
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections. The antibody was prepared from HeLa cells and reacts to 45 kDa cytokeratin 18 in immunoblotting. It specifically recognizes glandular epithelial cells from gastrointestinal tract, respiratory tract and urogenital tract, as well as, endocrine and exocrine tissues and mesothelial cells. It is unreactive with stratified squamous epithelia (esophagus, epidermis, ectocervix). In transitional epithelium of the bladder, this antibody only reacts with the superficial (umbrella) cells. It cross-reacts with keratin from most mammals including mouse, rabbit, and rats and with most birds. It is supplied as clarified tissue culture supernatant.
Ref.: 1. Ramaekers, F., et al., *Lab. Invest.*, **9**, 353-361 (1983).
2. Puts, J., et al., *Int. J. Gyn. Path.*, **4**, 300-313 (1985).
3. Smedts, F., et al., *Am. J. Path.*, **136**, 657-668 (1990).

10521
0-5°C **CYTOKERATIN 5,8** 1 ml
MONOCLONAL ANTIBODY

Anti-Human**Clone:** RCK 102**Isotype:** mouse IgG₁**Applications:** Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections.

The original antigen was prepared from human lung tumor cells. The antibody reacts with 58 and 52.2 kDa cytokeratins 5 and 8 in immunoblotting and with virtually all epithelial cell types. It is not reactive in non-epithelial tissues. It shows cross-reactivity with keratin from most mammals including mouse, rabbit and rat. Pepsin, pronase, or trypsin proteolytic treatment may be necessary for formalin-fixed paraffin-embedded sections (embedding and formalin fixation can give antigen denaturation or masking so results on paraffin-embedded sections should be evaluated cautiously). It is supplied as clarified tissue culture supernatant.

Ref.: Broers, J.L.V., et al., *J. Cell Science*, **83**, 37-60 (1986).2. Eyken, P van, et al., *Human Path.*, **21**, 302-308 (1990).

10522
0-5°C **CYTOKERATIN 7** 1 ml
MONOCLONAL ANTIBODY

Anti-Human**Clone:** RCK 105**Isotype:** mouse IgG₁**Applications:** Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections.

The original antigen was purified from human bladder cancer cell line T24. This antibody is specific to 54 kDa cytokeratin 7 in immunoblotting. Keratin 7 occurs in the columnar and glandular epithelium of the lung, cervix, breast, bile ducts, larger collecting ducts of the kidney and in mesothelium, but is absent from gastrointestinal epithelium, hepatocytes, proximal and distal tubules of the kidney and myoepithelium. Keratin 7 is not detected in the stratified epithelia of the skin, tongue, esophagus, or cervix, but is strongly stained in urinary bladder transitional epithelium. It is cross-reactive with keratin from most mammals including hamster, mouse, rabbit, and rat. It is supplied as clarified tissue culture supernatant.

Ref.: 1. Ramaekers, F., et al., *Exp. Cell Res.*, **170**, 235-249 (1987).2. Fischer, H.P., et al., *Am. J. Path.*, **127**, 530-537 (1987).3. Asborn, M., et al., *Lab. Invest.*, **55**, 497-504 (1986).

10526
0-5°C **CYTOKERATIN 8** 1 ml
MONOCLONAL ANTIBODY

Anti-Human**Clone:** M20**Isotype:** mouse IgG₁**Applications:** Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections.

The original antigen was purified from human breast cancer cell line McF7. This antibody is specific to 52.2 kDa cytokeratin 8 in immunoblotting and to epithelial cells (generally in combination with cytokeratin 7, 18 and 19).

Cytokeratins 7, 8, 18 and 19 are absent from squamous epithelia and do not occur in combination in several glandular epithelia cells. The antibody is cross-reactive with keratin from most mammals. It is supplied as clarified tissue culture supernatant.

Ref.: 1. Edwards, B.F., et al., *World J. Urology*, **5**, 123-127 (1987).2. Muijen, G.N.P. van, et al., *Lab. Invest.*, **57**, 4, 359-369 (1987).

10502
0-5°C **CYTOKERATIN 8,18,19** 1 ml
MONOCLONAL ANTIBODY

Anti-Human**Clone:** NCL 5D3**Isotype:** mouse IgG_{2a}**Applications:** Immunoblotting; Immunostaining.

The original antigen was prepared from human breast cancer cell line McF7. The antibody reacts with 52.2 kDa, 45 kDa, and 40 kDa cytokeratins 8, 18, and 19 in immunoblotting and recognizes all simple epithelia including glandular epithelium, e.g. thyroid, female breast, gastrointestinal tract, respiratory tract, and urogenital tract. It does not react with stratified squamous epithelium from any site. It exhibits no significant reactivity with mouse, rabbit or rat tissues. It is very effective in staining formalin-fixed, paraffin-embedded sections (pepsin or pronase pretreated). It is supplied as clarified ascites.

Ref.: Angus, B., et al., *J. Path.*, **153**, 377-384 (1987).

10501
0-5°C **CYTOKERATIN 10** 1 ml
MONOCLONAL ANTIBODY

Anti-Human**Clone:** RKSE 60**Isotype:** mouse IgG₁**Applications:** Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections.

The original antigen was prepared from human epidermis. The antibody reacts to 56.6 kDa cytokeratin 10 in immunoblotting. It specifically stains keratinizing squamous epithelia. This antibody may be applied in research of skin diseases because it reacts only with the keratinizing (supra-basal) cells of the epidermis and not with the basal cells. It is cross-reactive with keratin from most mammals including mouse, rabbit, and rat. It is supplied as clarified tissue culture supernatant.

Ref.: 1. Herman, C., et al., *Am. J. Path.*, **120**, 419-426 (1985).2. Smedts, F., et al., *Am. J. Path.*, **136**, 657-668 (1990).

11414
0-5°C **CYTOKERATIN 10** 1 ml
MONOCLONAL ANTIBODY

Anti-Human**Clone:** DE K10**Isotype:** mouse IgG₁**Applications:** Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections and formalin-fixed, paraffin-embedded tissue sections (pronase or trypsin pretreated).

The original antigen was prepared from human epidermis. The antibody reacts to 56.6 kDa cytokeratin 10 in immunoblotting and to keratinizing cells. It is cross-reactive with keratin of most mammals including bovine, mouse, rabbit and rat. It is supplied as clarified tissue culture supernatant.

Ref.: Ivanyi, D., et al., *J. Path.*, **159**, 7-12 (1989).

CATALOG
NUMBER

55036 0-5°C	FIBRINOGEN POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (IgG) Applications: ELISA; Immunoblotting; Immunostaining.	5 ml
55064 0-5°C	FIBRINOGEN POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (F(ab') ₂) Applications: ELISA; Immunoblotting; Immunostaining.	2 ml
55124 0-5°C	FIBRINOGEN POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized Applications: ELISA; Immunoblotting; Immunostaining.	2 ml
55125 0-5°C	FIBRONECTIN POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized Applications: ELISA; Immunoblotting; Immunostaining.	2 ml
55037 0-5°C	FIBRONECTIN POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (IgG) Applications: ELISA; Immunoblotting; Immunostaining.	5 ml
55065 0-5°C	FIBRONECTIN POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (F(ab') ₂) Applications: ELISA; Immunoblotting; Immunostaining.	2 ml
55126 0-5°C	FIBRONECTIN POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized Applications: ELISA; Immunoblotting; Immunostaining.	2 ml
55038 0-5°C	FIBRONECTIN POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized (IgG) Applications: ELISA; Immunoblotting; Immunostaining.	5 ml
55066 0-5°C	FIBRONECTIN POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized (F(ab') ₂) Applications: ELISA; Immunoblotting; Immunostaining.	2 ml

CATALOG
NUMBER

10707 0-5°C	FIBRONECTIN MONOCLONAL ANTIBODY Anti-Human Clone: 568 Isotype: mouse IgG ₁ Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections. The antibody was prepared from human fibroblasts. The antibody reacts with the cell binding part of fibronectin. It is supplied as clarified tissue culture supernatant with 0.09% sodium azide and 1% BSA. Ref.: Christensen, L., et al., APMIS, suppl. 26, 1-39 (1992).	1 ml
11185 0-5°C	FOLLICLE STIMULATING HORMONE MONOCLONAL ANTIBODY (Anti-FSH) Anti-Human Clone: 1038 Isotype: mouse IgG ₁ Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections. The antibody reacts with human FSH in immunoblotting. It is supplied as clarified ascites with 0.09% sodium azide and 1% BSA.	1 ml
11183 0-5°C	GASTRIN POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: liquid Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections. This antiserum reacts with gastrin secreting cells which are numerous in the antrum and are less numerous in the proximal duodenum. It cross-reacts with most mammals including mouse, rabbit and rat.	0.25 ml
10555 0-5°C	GLIAL FIBRILLARY ACIDIC PROTEIN POLYCLONAL ANTIBODY (Anti-GFAP) Anti-Human Host: rabbit Form: liquid Conc/Titer: 1:50-1:100 Applications: ELISA; Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections. This antiserum is produced from rabbits immunized with highly purified GFAP isolated from human spinal cord. The antiserum reacts to 56 kDa GFAP in immunoblotting and ELISA. It cross-reacts with GFAP in bovine and rat tissues. It is supplied with 1% BSA and 0.09% sodium azide. Ref.: Perentes, E., et al., Archives Path. Lab., Med., 111, 796-812 (1987).	0.25 ml

CATALOG NUMBER		
10505 0-5°C	GLIAL FIBRILLARY ACIDIC PROTEIN MONOCLONAL ANTIBODY (Anti-GFAP) Anti-Human Clone: 6F2 Isotype: mouse IgG ₁ Conc/Titer: 1:5-1:20 Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections. The original antigen was isolated from human spinal cord. The antibody reacts specifically to 56 kDa GFAP in immunoblotting and ELISA. It is supplied as clarified cell culture supernatant with 1% BSA and 0.09% sodium azide.	1 ml
55127 0-5°C	γ-GLOBULIN POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized Applications: ELISA; Immunoblotting; Immunostaining.	5 ml
11181 0-5°C	GROWTH HORMONE POLYCLONAL ANTIBODY (Anti-HGH) Anti-Human Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections. This antiserum reacts to human growth hormone (HGH) in the pituitary.	0.25 ml
55128 0-5°C	HAPTOGLOBIN POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55966 0-5°C	HEMOCYANIN, Keyhole Limpet POLYCLONAL ANTIBODY Anti-KLH Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55129 0-5°C	HEMOGLOBIN POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55039 0-5°C	HEMOGLOBIN POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml

CATALOG NUMBER		
11425 0-5°C	HISTAMINE POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: liquid Conc/Titer: 1:50-1:100 Applications: ELISA; Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections. The original antigen was synthetic peptide. The antiserum cross-reacts with most species including mouse and rat.	0.25 ml

Human Immunodeficiency Virus 1 (HIV-1)

These monoclonal antibodies are produced by hybridoma cultured in protein-free medium in hollow fiber systems. Antibodies are purified by protein A affinity chromatography. They are offered as lyophilized powders with no preservative added and presented in 1 ml of 10mM Tris-HCl, pH 7.4 with 15% sucrose serving as a lyoprotectant/stabilizer.

These antibodies are 99% protein pure IgG based on SDS-PAGE and HPLC. Catalog number 56974 is a human monoclonal antibody and the others are mouse monoclonal antibodies. The immunoreactivities and specificities of the antibodies are tested in ELISA using viral lysates, recombinant proteins and/or synthetic peptides. The specificities are confirmed by Western blot analysis. They are intended for use in ELISA, immunostaining and immunoblotting of western blots, cell suspensions and tissue sections.

56972 0-5°C	HIV-1 gp41 MONOCLONAL ANTIBODY Anti-HIV-1 gp41 Clone: OT 62A Isotype: mouse IgG ₁ Applications: ELISA; Immunoblotting; Immunostaining. The antiserum is produced by hybridoma cultured in protein-free medium in hollow fiber systems. It is purified by protein A affinity chromatography. This antibody is specific for the envelope glycoprotein 41 at epitope residues 584-604. It reacts with gp41 but not with gp160 in immunoblots. It shows no cross-reactivity with HIV-2. It is supplied as lyophilized powder of 100 µg antibody in 1 ml of 10 mM Tris-HCl, pH 7.4, with 15% sucrose added as a stabilizer/lyoprotectant. No preservatives are added.	100 µg
56974 0-5°C	HIV-1 gp41 MONOCLONAL ANTIBODY Anti-HIV-1 gp41 Clone: HU.OT 1 Isotype: human IgG ₁ Applications: ELISA; Immunoblotting; Immunostaining. The antiserum is produced by hybridoma cultured in protein-free medium in hollow fiber systems. It is purified by protein A affinity chromatography. This antibody is specific for the envelope glycoprotein 41 at epitope residues 643-692. It reacts with gp41 and gp160 in immunoblots. It shows no cross-reactivity with HIV-2. It is supplied as lyophilized powder of 100 µg antibody in 1 ml of 10 mM Tris-HCl, pH 7.4, with 15% sucrose added as a stabilizer/lyoprotectant. No preservatives are added. Ref.: Teeuwssen, V.J.P., et al., AIDS., 5, 893-896 (1991).	100 µg

CATALOG
NUMBER

56971 HIV-1 gp160 100 µg
0-5°C
MONOCLONAL ANTIBODY
Anti-HIV-1 gp160
Clone: OT 104A
Isotype: mouse IgG₁
Applications: ELISA; Immunoblotting; Immunostaining.
The antiserum is produced by hybridoma cultured in protein-free medium in hollow fiber systems. It is purified by protein A affinity chromatography. This antibody reacts with envelope gp160 and gp41 in immunoblots. It is supplied as lyophilized powder of 100 µg antibody in 1 ml of 10 mM Tris-HCl, pH 7.4, with 15% sucrose added as a stabilizer/lyoprotectant. No preservatives are added.

56981 HIV-1 p17 100 µg
0-5°C
MONOCLONAL ANTIBODY
Anti-HIV-1 p17
Clone: OT 65B
Isotype: mouse IgG₁
Applications: ELISA; Immunoblotting; Immunostaining.
The antiserum is produced by hybridoma cultured in protein-free medium in hollow fiber systems. It is purified by protein A affinity chromatography. This antibody reacts specifically with GAG-protein p17 at epitope residues 94-113. It reacts with p17 and p55 in immunoblots. It shows no cross-reactivity with HIV-2. It is supplied as lyophilized powder of 100 µg antibody in 1 ml of 10 mM Tris-HCl, pH 7.4, with 15% sucrose added as a stabilizer/lyoprotectant. No preservatives are added.

56979 HIV-1 p24 100 µg
0-5°C
MONOCLONAL ANTIBODY
Anti-HIV-1 p24
Clone: OT 34A
Isotype: mouse IgG₁
Applications: ELISA; Immunoblotting; Immunostaining.
The antiserum is produced by hybridoma cultured in protein-free medium in hollow fiber systems. It is purified by protein A affinity chromatography. This antibody reacts specifically with GAG-protein p24 at epitope residues 142-207. It reacts with p17 and p55 in immunoblots. It is supplied as lyophilized powder of 100 µg antibody in 1 ml of 10 mM Tris-HCl, pH 7.4, with 15% sucrose added as a stabilizer/lyoprotectant. No preservatives are added.

56980 HIV-1 p24 100 µg
0-5°C
MONOCLONAL ANTIBODY
Anti-HIV-1 p24
Clone: OT 39B
Isotype: mouse IgG₁
Applications: ELISA; Immunoblotting; Immunostaining.
The antiserum is produced by hybridoma cultured in protein-free medium in hollow fiber systems. It is purified by protein A affinity chromatography. This antibody reacts specifically with GAG-protein p24 at epitope residues 214-226. It reacts with p17 and p55 in immunoblots. It is supplied as lyophilized powder of 100 µg antibody in 1 ml of 10 mM Tris-HCl, pH 7.4, with 15% sucrose added as a stabilizer/lyoprotectant. No preservatives are added.

CATALOG
NUMBER

56977 HIV-1 p31 100 µg
0-5°C
MONOCLONAL ANTIBODY
Anti-HIV-1 p31
Clone: OT 10
Isotype: mouse IgG₁
Applications: ELISA; Immunoblotting; Immunostaining.
The antiserum is produced by hybridoma cultured in protein-free medium in hollow fiber systems. It is purified by protein A affinity chromatography. This antibody reacts specifically with POL-protein p31. It reacts just with p31 in immunoblots, and it cross-reacts with HIV-2. It is supplied as lyophilized powder of 100 µg antibody in 1 ml of 10 mM Tris-HCl, pH 7.4, with 15% sucrose added as a stabilizer/lyoprotectant. No preservatives are added.

56978 HIV-1 p55 100 µg
0-5°C
MONOCLONAL ANTIBODY
Anti-HIV-1 p55
Clone: OT 11
Isotype: mouse IgG₁
Applications: ELISA; Immunoblotting; Immunostaining.
The antiserum is produced by hybridoma cultured in protein-free medium in hollow fiber systems. It is purified by protein A affinity chromatography. This antibody reacts specifically with GAG-protein p55. It reacts just with p55 in immunoblots. It is supplied as lyophilized powder of 100 µg antibody in 1 ml of 10 mM Tris-HCl, pH 7.4, with 15% sucrose added as a stabilizer/lyoprotectant. No preservatives are added.

56975 HIV-1 REVERSE TRANSCRIPTASE 100 µg
0-5°C
MONOCLONAL ANTIBODY
Anti-HIV-1 RT
Clone: OT 9
Isotype: mouse IgG₁
Applications: ELISA; Immunoblotting; Immunostaining.
The antiserum is produced by hybridoma cultured in protein-free medium in hollow fiber systems. It is purified by protein A affinity chromatography. This antibody reacts specifically with POL-protein reverse transcriptase at epitope residues 387-412. It reacts with p51 and p65 in immunoblots. It shows no cross-reactivity with HIV-2. It is supplied as lyophilized powder of 100 µg antibody in 1 ml of 10 mM Tris-HCl, pH 7.4, with 15% sucrose added as a stabilizer/lyoprotectant. No preservatives are added.
Ref.: Chandra, P., et al., FEBS Lett., **268**, 415-421 (1990).

55080 IgA, Secretory 2 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55001 IgA, Secretory 5 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Human
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG NUMBER		
55046 0-5°C	IgA, Secretory POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (F(ab') ₂) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55082 0-5°C	IgA, α-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55003 0-5°C	IgA, α-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55047 0-5°C	IgA, α-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (F(ab') ₂) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55068 0-5°C	IgA, α-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: affinity purified liquid Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
11000 0-5°C	IgA, α-Specific MONOCLONAL ANTIBODY Anti-Human Clone: MH14-1 Isotype: mouse IgG ₁ Conc/Titer: 1:5-1:20 Applications: ELISA; Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	1 ml
55083 0-5°C	IgD, δ-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55085 0-5°C	IgE, ε-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml

CATALOG NUMBER		
55005 0-5°C	IgE, ε-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55087 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55007 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55049 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (F(ab') ₂) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55070 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Human Host: goat Form: affinity purified liquid Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
55075 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Human Host: goat Form: affinity purified liquid (F(ab') ₂) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
55088 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml

CATALOG
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55008 **IgG, Whole Molecule** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

59722 **IgG₁** 1 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: sheep
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

59398 **IgG₁** 1 mg
 0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: 8C6-39
Isotype: mouse IgG_{2a}
Applications: ELISA; Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
 This is a protein A purified antibody which reacts to the Fc portion of IgG₁. It is supplied in 0.03M Tris, 0.15M sodium chloride, 0.1% sodium azide at pH 7.4.
Ref.: Jefferis, R., et al., Immunology Letters, **10**, 223-252 (1985).
Shipped frozen on dry ice.

59723 **IgG₂** 1 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: sheep
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

59399 **IgG₂** 1 mg
 0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: HP6014
Isotype: mouse IgG₁ kappa
Applications: ELISA; Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
 This is a protein A purified antibody which reacts to the Fab portion of IgG₂. It is supplied in 0.03M Tris, 0.15M sodium chloride, 0.1% sodium azide at pH 7.4.
Ref.: Jefferis, R., et al., Immunology Letters, **10**, 223-252 (1985).
Shipped frozen on dry ice.

59724 **IgG₃** 1 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: sheep
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

59400 **IgG₃** 1 mg
 0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: HP6050
Isotype: mouse IgG₁ kappa
Applications: ELISA; Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
 This is a protein A purified antibody which reacts to the F(ab')₂ portion of IgG₃. It is supplied in 0.03M Tris, 0.15M sodium chloride, 0.1% sodium azide at pH 7.4.
Ref.: Jefferis, R., et al., Immunology Letters, **10**, 223-252 (1985).
Shipped frozen on dry ice.

59725 **IgG₄** 1 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: sheep
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55010 **IgG Fab** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55092 **IgG F(ab')₂** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55012 **IgG F(ab')₂** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55051 **IgG F(ab')₂** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized (F(ab')₂)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55093 **IgG F(ab')₂** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG NUMBER		
55072 0-5°C	IgG F(ab')₂ POLYCLONAL ANTIBODY Anti-Human Host: sheep Form: affinity purified liquid Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
55095 0-5°C	IgG Fc, γ-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55014 0-5°C	IgG Fc, γ-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55053 0-5°C	IgG Fc, γ-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized F(ab') ₂ Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55071 0-5°C	IgG Fc, γ-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: affinity purified liquid Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
56961 0-5°C	IgG Fc, γ-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: affinity purified liquid F(ab') ₂ Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
55094 0-5°C	IgG Fc, γ-Specific POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55015 0-5°C	IgG Fc, γ-Specific POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml

CATALOG NUMBER		
11003 0-5°C	IgG γ-Chain Specific MONOCLONAL ANTIBODY Anti-Human Clone: MH16-1 Isotype: mouse IgG ₁ Conc/Titer: 1:5-1:20 Applications: ELISA; Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	1 ml
55097 0-5°C	IgM, 5 Fc μ-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55017 0-5°C	IgM, 5 Fc μ-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55055 0-5°C	IgM, 5 Fc μ-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized F(ab') ₂ Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55073 0-5°C	IgM, 5 Fc μ-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: affinity purified liquid Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
56960 0-5°C	IgM, 5 Fc μ-Specific POLYCLONAL ANTIBODY Anti-Human Host: goat Form: affinity purified liquid F(ab') ₂ Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
55098 0-5°C	IgM, 5 Fc μ-Specific POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55018 0-5°C	IgM, 5 Fc μ-Specific POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml

CATALOG
NUMBER

11002 **IgM μ -Specific** 1 ml
 0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: MH15-1
Isotype: mouse IgG₁
Conc/Titer: 1:5-1:20
Applications: ELISA; Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55100 **IMMUNOGLOBULINS** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-IgG, IgA, and IgM)
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55020 **IMMUNOGLOBULINS** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-IgG, IgA, and IgM)
Anti-Human
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55057 **IMMUNOGLOBULINS** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-IgG, IgA, and IgM)
Anti-Human
Host: goat
Form: lyophilized F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55074 **IMMUNOGLOBULINS** 2 mg
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-IgG, IgA, and IgM)
Anti-Human
Host: goat
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55101 **IMMUNOGLOBULINS** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-IgG, IgA, and IgM)
Anti-Human
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55021 **IMMUNOGLOBULINS** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-IgG, IgA, and IgM)
Anti-Human
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

10709 **α -6 INTEGRIN** 1 ml
 0-5°C **MONOCLONAL ANTIBODY**
 (Anti-CD 49f)
Anti-Human
Clone: GoH3
Isotype: rat IgG_{2a}
Conc/Titer: 1:5-1:20
Applications: Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections. The original antigen was from mammary tumor cells. The purified antibody reacts to CD 49f antigen (VLA-6, α -chain) which forms complexes with CD 29 antigen (VLA-6, β -chain) on human platelets or with β -4 Integrin on human epithelial cells.

Ref.: 1. Sonnenberg, A., et al., J. Biol. Chem., **21**, 10376-10383 (1987).
 2. Bosman, F.T., et al., Int. J. Dev. Biol., **37**, 203-211 (1993).

55103 **KAPPA CHAINS** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55023 **KAPPA CHAINS** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55059 **KAPPA CHAINS** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55104 **KAPPA CHAINS** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55024 **KAPPA CHAINS** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG NUMBER		
11010 0-5°C	KAPPA CHAINS MONOCLONAL ANTIBODY Anti-Human Clone: MH19-1 Isotype: mouse IgG ₁ Conc/Titer: 1:5-1:20 Applications: ELISA; Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	1 ml
55105 0-5°C	KAPPA CHAINS, Free Bence Jones POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55025 0-5°C	KAPPA CHAINS, Free Bence Jones POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
NEW 12028	KV 1.3 POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: affinity purified, lyophilized Raised against highly fusion protein Schistosoma japonicum glutathione-S-transferase and the C-terminal portion of human Kv 1.3 protein	200 µl
55130 0-5°C	LACTOFERRIN POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55040 0-5°C	LACTOFERRIN POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55106 0-5°C	LAMBDA CHAINS POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55026 0-5°C	LAMBDA CHAINS POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml

CATALOG NUMBER		
55107 0-5°C	LAMBDA CHAINS POLYCLONAL ANTIBODY Anti-Human Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
11011 0-5°C	LAMBDA CHAINS MONOCLONAL ANTIBODY Anti-Human Clone: 48 Isotype: mouse IgG ₁ Conc/Titer: 1:5-1:20 Applications: ELISA; Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	1 ml
55108 0-5°C	LAMBDA CHAINS, Free Bence Jones POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55027 0-5°C	LAMBDA CHAINS, Free Bence Jones POLYCLONAL ANTIBODY Anti-Human Host: goat Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml

Lung Cancer Markers

Monoclonal antibodies for immunostaining of cytological specimens and frozen sections fixed by Nakane procedure and microwaved, formalin-fixed, paraffin-embedded tissue sections (item number 10829 and 10831). The antibodies were categorized in different "clusters" of reactivity patterns during the First International Workshop on Small Cell Lung Cancer Antigens in London, April 1987.

Cluster 1 Antibodies: MOC-1, MOC-21, MOC-32 and MOC-52. These antibodies are reactive with neural tissues, endocrine tissues, and in the lung preferentially with small cell lung cancers and carcinoids.

Cluster 2 Antibody: MOC-31. This antibody reacts with all lung carcinomas and most epithelia tissues. MOC-31 is unreactive with normal and malignant mesothelia, and therefore, it is especially useful for the detection of carcinoma cells in ascites or pleural effusions.

References

Berendsen, H.H., et al., J. Clin. Pathol., 14, 273-276 (1988).
Ruitenbeek, T., et al., Arch. Path. Lab. Med., 118, 265-269 (1994).

CATALOG
NUMBER

10829 LUNG CANCER MARKER 1 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Human
Clone: MOC-1
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cytological specimens and frozen sections fixed by Nakane procedure and microwaved, formalin-fixed, paraffin-embedded tissue sections (cat. no.'s 10829 and 10831). The antibody is reactive with neural, endocrine tissues, and in the lung preferentially with small cell lung cancers and carcinoids.
Ref.: 1. Berendsen, H.H., et al., J. Clin. Pathol., **14**, 273-276 (1988).
2. Ruitenbeek, T., et al., Arch. Pathol. Lab. Med., **118**, 265-269 (1994).

10830 LUNG CANCER MARKER 1 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Human
Clone: MOC-21
Isotype: mouse IgG_{2a}
Applications: Immunoblotting; Immunostaining of cytological specimens and frozen sections fixed by Nakane procedure and microwaved, formalin-fixed, paraffin-embedded tissue sections (cat. no.'s 10829 and 10831). The antibody is reactive with neural, endocrine tissues, and in the lung preferentially with small cell lung cancers and carcinoids.
Ref.: 1. Berendsen, H.H., et al., J. Clin. Pathol., **14**, 273-276 (1988).
2. Ruitenbeek, T., et al., Arch. Pathol. Lab. Med., **118**, 265-269 (1994).

10831 LUNG CANCER MARKER 1 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Human
Clone: MOC-31
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cytological specimens and frozen sections fixed by Nakane procedure and microwaved, formalin-fixed, paraffin-embedded tissue sections (cat. no.'s 10829 and 10831). The antibody is reactive with all lung carcinomas and most epithelia. It is unreactive with normal and malignant mesothelia. Therefore, it is especially useful for the detection of carcinoma cells in ascites or pleural effusions.
Ref.: 1. Berendsen, H.H., et al., J. Clin. Pathol., **14**, 273-276 (1988).
2. Ruitenbeek, T., et al., Arch. Pathol. Lab. Med., **118**, 265-269 (1994).

10832 LUNG CANCER MARKER 1 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Human
Clone: MOC-32
Isotype: mouse IgM
Applications: Immunoblotting; Immunostaining of cytological specimens and frozen sections fixed by Nakane procedure and microwaved, formalin-fixed, paraffin-embedded tissue sections (cat. no.'s 10829 and 10831). The antibody is reactive with neural, endocrine tissues, and in the lung preferentially with small cell lung cancers and carcinoids.
Ref.: 1. Berendsen, H.H., et al., J. Clin. Pathol., **14**, 273-276 (1988).
2. Ruitenbeek, T., et al., Arch. Pathol. Lab. Med., **118**, 265-269 (1994).

CATALOG
NUMBER

10833 LUNG CANCER MARKER 1 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Human
Clone: MOC-52
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cytological specimens and frozen sections fixed by Nakane procedure and microwaved, formalin-fixed, paraffin-embedded tissue sections (cat. no.'s 10829 and 10831). The antibody is reactive with neural, endocrine tissues, and in the lung preferentially with small cell lung cancers and carcinoids.
Ref.: 1. Berendsen, H.H., et al., J. Clin. Pathol., **14**, 273-276 (1988).
2. Ruitenbeek, T., et al., Arch. Pathol. Lab. Med., **118**, 265-269 (1994).

11419 LUNG CANCER MARKER PANEL 5x0.2 ml
0-5°C
MONOCLONAL ANTIBODY
Contains 0.2 ml each of MOC-1, MOC-21, MOC-31, MOC-32, and MOC-52.

11175 LUTEINIZING HORMONE-RELEASING HORMONE 0.25 ml
0-5°C
POLYCLONAL ANTIBODY
(Anti-LH-RH)
Anti-Human
Host: rabbit
Form: liquid
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
This antiserum reacts against LH-RH which is produced in the hypothalamus and influences the release of luteinizing hormone in the pituitary gland. The antiserum is supplied with 1% ovalbumin and 0.09% sodium azide.

11423 LYSOZYME 0.25 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Human
Host: rabbit
Form: liquid
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
This antiserum cross-reacts to rat lysozyme.

55113 α₂-MACROGLOBULIN 2 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55031 α₂-MACROGLOBULIN 5 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Human
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

11426 α -MELANOCYTE STIMULATING HORMONE 0.25 ml
0-5°C
POLYCLONAL ANTIBODY
(Anti- α -MSH)
Anti-Human
Host: rabbit
Form: liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

10822 **MELANOMA MARKER** 1 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Human
Clone: PAL-M1
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen tissue sections.
This monoclonal was developed to cytoplasmic antigen of human melanoma cells. The antibody reacts with majority and primary melanomas and their metastases. It can stain locally dysplastic nevocellular nevi, but rarely stains common nevocellular nevi. It is supplied as clarified tissue culture supernatant with 1% BSA and 0.09% sodium azide.
Ref.: 1. Ruitter, D.J., et al., *J. Invest. Derm.*, **85**, 4-8 (1985).
2. Van Muijen, G.N.P., et al., *J. Invest. Derm.*, **1**, 65-69 (1990).

10819 **MELANOMA MARKER** 1 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Human
Clone: NKI-C3
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen tissue sections.
This monoclonal was developed to cytoplasmic antigen found in human melanoma cells. In immunoblotting, it shows diffuse staining of 25-100 kDa protein bands in melanoma cell cytoplasmic extracts. It does not react with normal melanocytes or other normal tissues except for mast cells, histiocytes, salivary glands, bronchial glands, pancreatic and prostatic epithelium. It reacts with melanoma cells and nevocellular nevi. It can cross-react with carcinoids, medullary carcinomas of the thyroid, and occasionally with prostatic, primary breast, ovarian, and lung carcinomas. It is supplied as clarified ascites diluted with Tris buffer with 1% BSA and 0.09% sodium azide.
Ref.: 1. Van Duinen, S.G., et al., *Cancer*, **53**, 1566-1573 (1984).
2. Suter, L. and Brocker, E.B., *Der Pathologe*, **8**, 163-167 (1987).
3. Vennegoor, C., et al., *Int. J. Cancer*, **25**, 287-295 (1985).

CATALOG
NUMBER

Multidrug Resistance-Related Proteins

Exposure to one natural product drug can render tumor cells resistant to other structurally and functionally unrelated drugs known as Multiple Drug Resistance (MDR). Classical MDR results from P-glycoprotein, a protein inserted in the plasma membrane which functions as an ATP-driven drug efflux pump. Moreover, Multiple Drug Resistance-related Protein (MRP), a 180-195 kDa glycoprotein, and the 100 kDa lung MDR-related protein (LRP) can also produce MDR.

The following monoclonal antibodies to MDR proteins are intended for use in immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed paraffin sections (JSB-1, MRPm6 and MRPr1) and immunoblotting (MRPm6 and MRPr1). They are supplied as clarified cell culture supernatant with 0.7-1% BSA and 0.1% sodium azide.

References

Flens, M.J., et al., *Cancer Res.*, **54**, 4557-4563 (1994).
Dalton, W.S., et al., *J. Clin. Oncol.*, **7**, 415 (1989).
Scheper, R.J., et al., *Cancer Res.*, **53**, 1475-1479 (1993).

57043 **P-GLYCOPROTEIN** 1 ml
0-5°C
MONOCLONAL ANTIBODY
(Anti-Pgp)
Anti-Human
Clone: JSB-1
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded sections.
This antibody reacts specifically to the classical multiple drug resistance protein, 170 kDa P-glycoprotein, a plasma membrane protein which functions as an ATP-driven drug efflux pump. It is supplied as clarified cell culture supernatant with 0.7-1.0% BSA and 0.1% sodium azide.
Ref.: 1. Flens, M.J., et al., *Cancer Res.*, **54**, 4557-4563 (1994).
2. Dalton, W.S., et al., *J. Clin. Oncol.*, **7**, 415 (1989).
3. Scheper, R.J., et al., *Cancer Res.*, **53**, 1475-1479 (1993).

57044 **MDR-ASSOCIATED PROTEIN** 1 ml
0-5°C
MONOCLONAL ANTIBODY
(Anti-MRP)
Anti-Human
Clone: MRPm6
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded sections.
This antibody reacts specifically to the 180-195 kDa multiple drug resistance-associated protein (MRP). It is supplied as clarified cell culture supernatant with 0.7-1.0% BSA and 0.1% sodium azide.
Ref.: 1. Flens, M.J., et al., *Cancer Res.*, **54**, 4557-4563 (1994).
2. Dalton, W.S., et al., *J. Clin. Oncol.*, **7**, 415 (1989).
3. Scheper, R.J., et al., *Cancer Res.*, **53**, 1475-1479 (1993).

CATALOG
NUMBER

57045 **MDR-ASSOCIATED PROTEIN** 1 ml
0-5°C
MONOCLONAL ANTIBODY
(Anti-MRP)
Anti-Human
Clone: MRP1
Isotype: rat IgG_{2a}
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded sections.
This antibody reacts specifically to the 180-195 kDa multiple drug resistance-associated protein (MRP). It is supplied as clarified cell culture supernatant with 0.7-1.0% BSA and 0.1% sodium azide.
Ref.: 1. Flens, M.J., et al., *Cancer Res.*, **54**, 4557-4563 (1994).
2. Dalton, W.S., et al., *J. Clin. Oncol.*, **7**, 415 (1989).
3. Scheper, R.J., et al., *Cancer Res.*, **53**, 1475-1479 (1993).

57046 **LUNG-RESISTANCE RELATED PROTEIN** 1 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Human
Clone: LRP-56
Isotype: mouse IgG_{2b}
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded sections.
This antibody reacts specifically to the 110 kDa lung multiple drug resistance-related protein. (LRP). It is supplied as clarified cell culture supernatant with 0.7-1.0% BSA and 0.1% sodium azide.
Ref.: 1. Flens, M.J., et al., *Cancer Res.*, **54**, 4557-4563 (1994).
2. Dalton, W.S., et al., *J. Clin. Oncol.*, **7**, 415 (1989).
3. Scheper, R.J., et al., *Cancer Res.*, **53**, 1475-1479 (1993).

10700 **MYELIN** 1 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Human
Clone: 2B5
Isotype: mouse IgM
Conc/Titer: 1:5-1:20
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen tissue sections.
The original antigen was isolated from human PNS. The antibody reacts specifically to 43 kDa myelin protein in immunoblotting and in immunodiffusion. It reacts specifically with myelin in paraffin-embedded sections of the peripheral nervous system (PNS). It also reacts weakly with the myelin in frozen sections of the central nervous system (CNS). It is supplied as clarified ascites diluted with Tris buffer with 1% BSA and 0.09% sodium azide.
Ref.: Kros, J.M., et al., *Human Pathology*, **22**, 33-40 (1991).

55131 **MYOGLOBIN** 2 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

55041 **MYOGLOBIN** 5 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Human
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55132 **MYOGLOBIN** 2 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Human
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

10510 **NEUROFILAMENTS 68 and 200 kDa** 1 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Human
Clone: 2F 11
Isotype: mouse IgG₁
Conc/Titer: 1:5-1:20
Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections and formalin-fixed, paraffin-embedded sections.
The original antigen was isolated from human brain. The antibody reacts with the 68 kDa and 200 kDa neurofilament subunits in immunoblotting and ELISA. There is no cross-reactivity with other intermediate filament proteins. In immunohistochemistry, it reacts with the filament proteins in the neural cells of the central and peripheral nervous system. It is supplied as clarified tissue culture supernatant with 1% BSA and 0.09% sodium azide.
Ref.: 1. Kluck, P. et al., *The Lancet*, March 24, 652-653 (1984).

10512 **NEUROFILAMENTS 160 kDa** 1 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Human
Clone: NF 403
Isotype: mouse IgG₁
Conc/Titer: 1:5-1:20
Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections and formalin-fixed, paraffin-embedded sections.
The original antigen was isolated from calf brain tissue. The antibody reacts specifically with the 160 kDa neurofilament subunits in immunoblotting and ELISA. There is no cross-reactivity with other intermediate filament proteins. It is supplied as clarified tissue culture supernatant with 1% BSA and 0.09% sodium azide.

CATALOG
 NUMBER

10825 **OVARIAN CARCINOMA MARKER** 1 ml
 0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: OV-632
Isotype: mouse IgG_{2b}
Applications: Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections. The antibody was produced using antigen isolated from cyst fluid of a serous cystadenocarcinoma. The clone was selected using immunohistochemistry on tissue sections of ovarian carcinomas, several other adenocarcinomas and most normal human tissues. It reacts with most primary nonmucinous ovarian adenocarcinomas, but not with colon carcinomas and breast carcinomas.
Ref.: 1. Fleuren, G.J., et al., *Virchows Arch A*, **410**, 481-486 (1987).
 2. Koelma, I.A., et al., *Amer. J. Clin. Path.*, **90**, 391-396 (1988).

11435 **p53 PROTEIN** 0.25 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
Form: liquid
Conc/Titer: 1:50-1:100
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections. The original antigen was recombinant p53 oncoprotein. The antibody recognizes wild-type and most mutant forms of p53 in immunohistochemistry. For formalin fixation, small tissue blocks should be fixed within 4 hours in buffered formaldehyde. It is supplied with 1% BSA and 0.09% sodium azide.
Ref.: 1. Bartek, J., et al., *Oncogene*, **5**, 893-899 (1990).
 2. Hall, P.A., et al., *Lancet*, **338**, 513 (1991).

11427 **PANCREASTATIN** 0.25 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
Form: liquid
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections. The antibody cross-reacts to all mammals tested except rat.

11431 **PEPTIDE YY** 0.25 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-PYY)
Anti-Human
Host: rabbit
Form: liquid
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections. The antibody cross-reacts to all mammals tested except rat. The antiserum cross-reacts to cat and rat pancreastatin.

 CATALOG
 NUMBER

71991 **PLASMINOGEN ACTIVATOR, Tissue Type** 1 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-tPA)
Anti-Human
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections. This is a preparation of protein A-purified IgG antibodies against t-PA. It is supplied lyophilized in 0.15M Tris buffer, pH 7.5, with 1% mannitol. 10 µl of reconstituted antibodies inhibits activity of reference t-PA in body fluids, but is not active against urokinase and is free of proteolytic and amidolytic activity on the synthetic plasmin substrate S-2251.
Ref.: Verhijen, J.H., *Thromb. Haemostas.*, **48**, 266-269 (1983).

11432 **PROLACTIN** 0.25 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
Form: liquid
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections. The antibody cross-reacts to most mammalian prolactin.

Prosomes

Prosomes are cellular particles (MW 720,000) of variable protein composition present from archeobacteria to the human species often associated to messenger RNA, higher order protease complexes and the intermediate filaments of the cytoskeleton. They are identical to the Multi-Catalytic Proteinase (MCP) Complexes or Proteasomes and the Low Molecular mass Protein (LMP) complex apparently involved in antigen presentation within the MHC-1 system.

Antibodies are characterized in immunoblotting of purified prosome antigens. They are generally cross-reactive with prosomes from eukaryotic cells of simple plants to human tissue. They are intended for immunoblotting and immunostaining of cell suspensions, frozen sections and paraffin-embedded sections. It is supplied as clarified ascites with 0.02% sodium azide.

See additional listings under Antibodies to Other Antigens

References

- Zwicki, P., et al., *Biochem.*, **31**, 964-971 (1992).
 Schmid, H.P., et al., *Embo Journal*, **3**, 29-34 (1984).
 Scherrer, K., *Mol. Biol. Reports*, **14**, 1-9 (1990).
 Rivett, A.J., *Arch. Biochem. Biophys.*, **268**, 1-8 (1989).
 Goldberg, A.L. and Rock, K.L., *Nature*, **357**, 375-379 (1992).
 Grossi de Sa, M.F., et al., *J. Cell Biol.*, **107**, 1517-1530 (1988).

CATALOG
NUMBER

59277 **PROSOMES p25K** 0.5 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Human
Clone: 7A11
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions, frozen sections, and formalin-fixed, paraffin-embedded sections.
The antibody cross-reacts to kangaroo rat and monkey. It is supplied as clarified ascites with 0.02% sodium azide.
Ref.: 1. Zwickl, P. et al., *Biochemistry*, **31**, 964-971 (1992).
2. Schmid, H.P., et al., *Embo Journal*, **3**, 29-34 (1984).
3. Scherrer, K., *Molecular Biology Reports*, **14**, 1-9 (1990).

59278 **PROSOMES p30K/p33K** 0.5 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Human
Clone: 62A32
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions, frozen sections, and formalin-fixed, paraffin-embedded sections.
The antibody cross-reacts to kangaroo rat and monkey. It is supplied as clarified ascites with 0.02% sodium azide.
Ref.: 1. Zwickl, P. et al., *Biochemistry*, **31**, 964-971 (1992).
2. Schmid, H.P., et al., *Embo Journal*, **3**, 29-34 (1984).
3. Scherrer, K., *Molecular Biology Reports*, **14**, 1-9 (1990).

10816 **PROSTATIC SPECIFIC ACID PHOSPHATASE** 1 ml
0-5°C
MONOCLONAL ANTIBODY
(Anti-PSAP)
Anti-Human
Clone: Pase/4LJ
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen sections, and formalin-fixed, paraffin-embedded sections.
This antibody reacts specifically with 52 kDa PSAP in immunoblotting. It is supplied as clarified tissue cell supernatant with 1% BSA and 0.09% sodium azide.
Ref.: Svanholm, H., et al., *Acta Path. Microbiol. Immunol. Scand.*, **A94**, 7-12 (1986).

10815 **PROSTATE SPECIFIC ANTIGEN** 1 ml
0-5°C
MONOCLONAL ANTIBODY
(Anti-PSA)
Anti-Human
Clone: ER-PR8
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen sections, and formalin-fixed, paraffin-embedded sections.
This antibody reacts specifically with 34 kDa PSA in immunoblotting and with prostatic epithelium. It is supplied as clarified tissue cell supernatant with 1% BSA and 0.09% sodium azide.
Ref.: Gallee, M.P.W., et al., *Urological Research*, **18**, 181-187 (1990).

55133 **RED BLOOD CELLS** 2 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Human
Host: rabbit
Form: lyophilized
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

55042 **RED BLOOD CELLS** 5 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Human
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55134 **SEMINAL FLUID, Plasma Absorbed** 2 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Human
Host: rabbit
Form: lyophilized
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

11160 **SEROTONIN** 0.25 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Human
Host: rabbit
Form: liquid
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
The antibody is cross-reactive with mouse, rabbit and rat serotonin. It reacts with serotonin-producing endocrine cells of the stomach, duodenum and ileum.

11180 **SOMATOSTATIN** 0.25 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Human
Host: rabbit
Form: liquid
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
The antibody is cross-reactive with swine and rat somatostatin. It reacts with somatostatin localized in nerves in the brain and the gut and in the endocrine cells of the gut and pancreas.

11192 **SUBSTANCE P** 0.25 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Human
Host: rabbit
Form: liquid
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
The antibody is cross-reactive with rat systems. It reacts with substance P localized in nerve fibers of the central and peripheral nervous systems and in endocrine cells of the gut.

CATALOG NUMBER

10701 **SYNAPTOPHYSIN** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: SY38
Isotype: mouse IgG₁ ascites
Conc/Titer: 1:10
Applications: Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections. The original antigen was purified from presynaptic vesicles. The antibody reacts with a membrane glycoprotein in the presynaptic vesicles of neurons. It stains synaptic structures in both the central and peripheral nervous system.
Ref.: 1. Miettinen, M., Arch. Pathol. Lab. Med., **111**, 813-817 (1987).
 2. Wiedemann, B. and Franke, W.W., Cell, **41**, 1017-1028 (1985).

10706 **SYNAPTOPHYSIN** 0.25 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
Form: liquid
Applications: Immunostaining of cell suspensions and acetone-fixed frozen tissue sections. The original antigen was purified from presynaptic vesicles. The antibody reacts with a membrane glycoprotein in the presynaptic vesicles of neurons. It stains synaptic structures in both the central and peripheral nervous system.

10905 **T-CELLS** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
(Anti-CD43)
Anti-Human
Clone: MT1
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections. This antibody reacts with 100, 110 and 190 kDa lymphocyte membrane antigen in immunoblotting and with all T-cells, immature B-cells, histiocytes, and myeloid cells. It is supplied as tissue culture supernatant with 1% BSA and 0.09% sodium azide.
Ref.: 1. West, K.P., J. Path., **150**, 89-101 (1986).
 2. Poppema, S., et al., Am. J. Path., **127**, 418-429 (1987).

10912 **T8 CELLS** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: T8
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections. It is supplied as clarified ascites diluted with 1% BSA and 0.09% sodium azide.
Ref.: 1. West, K.P., J. Path., **150**, 89-101 (1986).
 2. Poppema, S., et al., Am. J. Path., **127**, 418-429 (1987).

CATALOG NUMBER

10708 **TENASCIN** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: T2 H5
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded (microwaved) tissue sections. The original antigen was isolated from mammary tumor cells. The antibody reacts specifically to at least 210 and 300 kDa forms of tenascin in immunoblotting. Tenascin is an extracellular matrix protein which is present during embryonic development and apparently regulates epithelial differentiation. It is not found in mature tissues, but reappears during tissue regeneration and repair and in neoplasia. It is supplied as clarified ascites with Tris Buffer with 1% BSA and 0.09% sodium azide.
Ref.: 1. Bosman, F.T., et al., Progr. Histochem. Cytochem., **24(4)**, 1-92 (1992).
 2. Koukoulis, G.K., et al., Human Pathol., **22**, 636-643 (1991).

10029 **THYMOCYTES** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
(Anti-CD 45RO)
Anti-Human
Clone: UCHL 1
Isotype: mouse IgG_{2a}
Applications: Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections. This antibody reacts specifically to a 185 kDa membrane antigen in immunoblotting. In immunohistochemistry, it stains with most thymocytes, a subset of T cells (CD 4 and CD 8), monocytes and granulocytes. It does not stain B cells. It is supplied as clarified tissue culture supernatant with 1% BSA and 0.09% sodium azide.
Ref.: 1. West, K.P., J. Path., **150**, 89-101 (1986).
 2. Poppema, S., et al., Am. J. Path., **127**, 418-429 (1987).

10855 **THYROGLOBULIN** 0.25 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
Form: liquid
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections. This antiserum is specific for thyroglobulin by Ouchterlony which reacts in immunohistochemistry exclusively with follicle epithelium and colloid in thyroid.

10805 **THYROGLOBULIN** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
Anti-Human
Clone: 2H11
Isotype: mouse IgG₁
Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded (microwaved) tissue sections. This antibody reacts specifically to thyroglobulin in ELISA and reacts exclusively with the follicle epithelium and colloid in the thyroid. It is supplied as clarified ascites diluted with Tris buffer with 1% BSA and 0.09% sodium azide.

CATALOG NUMBER

11433 **THYROID STIMULATING HORMONE** 0.25 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-TSH)
Anti-Human
Host: rabbit
Form: liquid
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

11170 **THYROTROPIN RELEASING HORMONE** 0.25 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-TRH)
Anti-Human
Host: rabbit
Form: liquid
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
 The antigen was synthetic peptide. The antiserum reacts with the thyrotropin releasing hormone (TRH) which is produced in the hypothalamus and stimulates the release of thyroid stimulating hormone in the pituitary.

55139 **TRANSFERRIN** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

55045 **TRANSFERRIN** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

59714 **TUMOR NECROSIS FACTOR- α** 1 ml
 0-5°C **MONOCLONAL ANTIBODY**
 (Anti-TNF α)
Anti-Human
Clone: B-C7
Conc/Titer: >10⁵ for ELISA
Isotype: mouse IgG₁
Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded (microwaved) tissue sections.
 This antibody is reactive with both natural and recombinant human α -TNF and with the 26 kDa transmembrane form of α -TNF. It does not react with either β -TNF (lymphotoxin) or mouse α -TNF. The antibody has a neutralizing titer of at least 100,000 NU/ml.
 Unit Definition: one unit of α -TNF is defined as the amount of protein required to induce half-maximal cytolysis of L929 cells. One neutralizing unit (NU) is defined as the amount of antibody required to neutralize one unit of α -TNF. It is offered as a liquid in PBS with 0.05% sodium azide (100 μ g/vial).
Ref.: Peterson, P.K., et al., J. Clin. Invest., **89**, 574-580 (1992).

CATALOG NUMBER

71992 **UROKINASE-PLASMINOGEN ACTIVATOR** 1 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-uPA)
Anti-Human
Host: goat
Form: lyophilized
 The antibody inhibits more than 95% of plasma u-PA activity in a 30 μ l assay mixture, but is not inhibitory to t-PA. It is suitable for quenching of u-PA activity in microtiter assays.
Ref.: Kluft, C., et al., Lab. Clin. Med., **103**, 408-419 (1984).

55140 **UROMUCOID** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

NEW 12001 **VESICULAR GABA TRANSPORTER** 50 μ l
POLYCLONAL ANTIBODY
Anti-Human
Host: rabbit
BSA Conjugated

NEW 12004 **VESICULAR ACETYLCHOLINE TRANSPORTER** 50 μ l
POLYCLONAL ANTIBODY
 (Anti-VACht)
Anti-Human B 27-1
Host: rabbit

55136 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

55996 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized
Applications: Forensic Applications; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
Forensic Antiserum

55043 **WHOLE SERUM** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

CATALOG NUMBER

55137 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

55997 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Human
Host: rabbit
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
Forensic Antiserum

Antibodies to Mouse Antigens

55442 **ALBUMIN, MOUSE** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized
Applications: Immunoblotting.

55462 **ALBUMIN, MOUSE** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunoblotting.

55444 **COMPLEMENT C3** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-C3)
Anti-Mouse
Host: goat
Form: lyophilized
Applications: Immunoblotting.

55463 **COMPLEMENT C3** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-C3)
Anti-Mouse
Host: goat
Form: lyophilized (IgG)
Applications: Immunoblotting.

55474 **COMPLEMENT C3** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-C3)
Anti-Mouse
Host: goat
Form: lyophilized F(ab')₂
Applications: Immunoblotting.

55445 **γ-GLOBULIN** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized
Applications: ELISA; Immunoblotting; Immunostaining.

CATALOG NUMBER

55446 **γ-GLOBULIN** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized
Applications: ELISA; Immunoblotting; Immunostaining.

55447 **HEMOGLOBIN** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55434 **IgA, α-Specific** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55454 **IgA, α-Specific** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55478 **IgA, α-Specific** 2 mg
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55435 **IgG, Whole Molecule** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55455 **IgG, Whole Molecule** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55477 **IgG, Whole Molecule** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized (Fab)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

55468 IgG, Whole Molecule 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55479 IgG, Whole Molecule 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55487 IgG, Whole Molecule 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: affinity purified liquid F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55436 IgG, Whole Molecule 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55456 IgG, Whole Molecule 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55469 IgG, Whole Molecule 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized F(ab')₂.
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55480 IgG, Whole Molecule 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55457 IgG, Whole Molecule 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: sheep
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

55481 IgG, Whole Molecule 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: sheep
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55488 IgG, Whole Molecule 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: sheep
Form: affinity purified liquid F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55452 IgG, Whole Molecule 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: sheep
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
This antibody is NOT cross-reactive with human IgG whole molecule.

55466 IgG, Whole Molecule 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: sheep
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
This antibody is NOT cross-reactive with human IgG whole molecule.

55475 IgG, Whole Molecule 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: sheep
Form: lyophilized F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
This antibody is NOT cross-reactive with IgG whole molecule.

55485 IgG, Whole Molecule 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: sheep
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
This antibody is NOT cross reactive with human IgG whole molecule.

55490 IgG, Whole Molecule 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: sheep
Form: affinity purified liquid F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
This antibody is NOT cross-reactive with human IgG whole molecule.

CATALOG NUMBER

55453 **IgG, Whole Molecule** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
 This antibody is NOT cross-reactive with rat IgG whole molecule.

55467 **IgG, Whole Molecule** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
 This antibody is NOT cross-reactive with rat IgG whole molecule.

50227 **IgG₁** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

50228 **IgG_{2a}** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

50230 **IgG_{2b}** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

50231 **IgG₃** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55438 **IgG F(ab')₂** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55458 **IgG F(ab')₂** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG NUMBER

55471 **IgG F(ab')₂** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55483 **IgG F(ab')₂** 2 mg
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55439 **IgG Fc, γ-Specific** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55459 **IgG Fc, γ-Specific** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55472 **IgG Fc, γ-Specific** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55482 **IgG Fc, γ-Specific** 2 mg
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

50238 **IgG Fc, γ-Specific** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55440 **IgM, μ-Specific** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

55460 **IgM, μ -Specific** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55473 **IgM, μ -Specific** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55484 **IgM, μ -Specific** 2 mg
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55489 **IgM, μ -Specific** 2 mg
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: affinity purified liquid F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

50234 **IgM, μ -Specific** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55441 **IMMUNOGLOBULINS** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-IgG, IgA, and IgM)
Anti-Mouse
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55461 **IMMUNOGLOBULINS** 5 ml
 0-5°C **POLYCLONAL ANTIBODY**
 (Anti-IgG, IgA, and IgM)
Anti-Mouse
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

IMMUNOGLOBULINS 2 mg
 55486 **POLYCLONAL ANTIBODY**
 (Anti-IgG, IgA, and IgM)
Anti-Mouse
Host: goat
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

IMMUNOGLOBULINS 2 mg
 55491 **POLYCLONAL ANTIBODY**
 (Anti-IgG, IgA, and IgM)
Anti-Mouse
Host: goat
Form: affinity purified liquid F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

KAPPA CHAINS 2 ml
 50236 **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

NEW **Kv1.1** 200 μ l
 12081 **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
 Lyophilized
 Raised against highly purified fusion protein of Schistoma japonicum glutathione-S-transferase (GST) and a C-terminal part of mouse KV 1.1 protein

NEW **Kv 1.5**
POLYCLONAL ANTIBODY
Anti-Mouse
Host: rabbit
Form: affinity purified, lyophilized
 Raised against highly purified fusion protein of Schistoma Japonicum glutathione-s-transferase and C-terminal part of mouse KV 1.5 protein
 12030 50 μ l
 12031 200 μ l

LAMBDA CHAINS 2 ml
 50237 **POLYCLONAL ANTIBODY**
 0-5°C **Anti-Mouse**
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG NUMBER

10765 **LAMININ** 0.25 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: liquid
Conc/Titer: 1:50-1:100
Applications: ELISA; Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
 The original antigen was laminin isolated from EHS mouse sarcoma. The antibody cross-reacts to most species including human, mouse, rat, rabbit, bovine, and swine. It reacts specifically to laminin in ELISA and to 200-220 kDa laminin component from 8M urea extract of amnion base-membrane in immunoblotting.
Ref.: Bosman, F.T., et al., *Ultrastructural Pathology*, **8**, 291-304 (1985).

55451 **TRANSFERRIN** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

55465 **TRANSFERRIN** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

55449 **WHOLE SERUM** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

56003 **WHOLE SERUM** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
Forensic Antiserum

55450 **WHOLE SERUM** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Mouse
Host: rabbit
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

CATALOG NUMBER

Antibodies to Rabbit Antigens

55629 **ALBUMIN, RABBIT** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized (IgG)
Applications: Immunoblotting.

55632 **FIBRONECTIN** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized (IgG)
Applications: ELISA; Immunoblotting; Immunostaining.

55614 **γ -GLOBULIN** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized
Applications: ELISA; Immunoblotting; Immunostaining.

55602 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55622 **IgG, Whole Molecule** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55636 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55641 **IgG, Whole Molecule** 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55644 **IgG, Whole Molecule** 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: affinity purified liquid F(ab')₂.
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

55603 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: sheep
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55623 **IgG, Whole Molecule** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: sheep
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55620 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
This antibody is NOT cross-reactive with human IgG whole molecule.

55635 **IgG, Whole Molecule** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
This antibody is NOT cross-reactive with human IgG whole molecule.

55604 **IgG F(ab')₂** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55624 **IgG F(ab')₂** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55637 **IgG F(ab')₂** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55643 **IgG F(ab')₂** 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

55605 **IgG Fc, γ -Specific** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55625 **IgG Fc, γ -Specific** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55642 **IgG Fc, γ -Specific** 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55627 **IgM, μ -Specific** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55608 **IMMUNOGLOBULINS** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-IgG, IgA, and IgM)
Anti-Rabbit
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55628 **IMMUNOGLOBULINS** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-IgG, IgA, and IgM)
Anti-Rabbit
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55616 **RED BLOOD CELLS** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55619 **TRANSFERRIN** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rabbit
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

CATALOG NUMBER		
55634 0-5°C	TRANSFERRIN POLYCLONAL ANTIBODY Anti-Rabbit Host: goat Form: lyophilized (IgG) Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55617 0-5°C	WHOLE SERUM POLYCLONAL ANTIBODY Anti-Rabbit Host: goat Form: lyophilized Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.	2 ml
56004 0-5°C	WHOLE SERUM POLYCLONAL ANTIBODY Anti-Rabbit Host: goat Form: lyophilized Applications: Forensic Applications; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections. Forensic Antisera	2 ml

Antibodies to Rat Antigens

55710 0-5°C	ALBUMIN, RAT POLYCLONAL ANTIBODY Anti-Rat Host: goat Form: lyophilized Applications: Immunoblotting.	2 ml
55727 0-5°C	ALBUMIN, RAT POLYCLONAL ANTIBODY Anti-Rat Host: goat Form: lyophilized (IgG) Applications: Immunoblotting.	5 ml
55711 0-5°C	ALBUMIN, RAT POLYCLONAL ANTIBODY Anti-Rat Host: rabbit Form: lyophilized Applications: Immunoblotting.	2 ml
55728 0-5°C	ALBUMIN, RAT POLYCLONAL ANTIBODY Anti-Rat Host: rabbit Form: lyophilized (IgG) Applications: Immunoblotting.	5 ml
55712 0-5°C	ALBUMIN, RAT POLYCLONAL ANTIBODY Anti-Rat Host: sheep Form: lyophilized Applications: Immunoblotting.	2 ml

CATALOG NUMBER		
55729 0-5°C	ALBUMIN, RAT POLYCLONAL ANTIBODY Anti-Rat Host: sheep Form: lyophilized (IgG) Applications: Immunoblotting.	5 ml
NEW 12015	BRAIN TYPE 1 SODIUM CHANNEL (BI) POLYCLONAL ANTIBODY Host: rabbit Form: affinity purified, lyophilized	200 µl
NEW 12018	BRAIN TYPE 11 SODIUM CHANNEL POLYCLONAL ANTIBODY Anti-Rat Host: rabbit Form: affinity purified, lyophilized A polyclonal antibody raised against SP11 11 corresponding to residue 468-485 of a subunit of rat type 11 voltage-gated sodium channel with additional N-terminal lysine and tyrosine.	200 µl
NEW	BRAIN TYPE III SODIUM CHANNEL POLYCLONAL ANTIBODY Anti-Rat Host: rabbit Form: affinity purified, lyophilized Raised against SP32111, residues 511-524 of a subunit of rat type III voltage-gated sodium channel (VGSC) with additional N-terminal lysine and tyrosine.	50 µl 200 µl
12082 12020		
11189 0-5°C	CALCITONIN - GENE RELATED PEPTIDE POLYCLONAL ANTIBODY Anti-Rat Host: rabbit Form: liquid Applications: Immunostaining of cell suspensions, acetone-fixed frozen and formalin-fixed paraffin-embedded tissue sections. This antiserum was produced from rat antigen and cross-reacts to human systems. It does react with C-GRP present in the C-cells of the thyroid and in central and peripheral nerves.	0.25 ml
55713 0-5°C	COMPLEMENT C3 POLYCLONAL ANTIBODY (Anti-C3) Anti-Rat Host: goat Form: lyophilized Applications: Immunoblotting.	2 ml
55730 0-5°C	COMPLEMENT C3 POLYCLONAL ANTIBODY (Anti-C3) Anti-Rat Host: goat Form: lyophilized (IgG) Applications: Immunoblotting.	5 ml

CATALOG
NUMBER

55714 **FIBRINOGEN** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: goat
Form: lyophilized
Applications: ELISA; Immunoblotting; Immunostaining.

55731 **FIBRINOGEN** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: goat
Form: lyophilized (IgG)
Applications: ELISA; Immunoblotting; Immunostaining.

55703 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55722 **IgG, Whole Molecule** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55736 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: goat
Form: lyophilized F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55740 **IgG, Whole Molecule** 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: goat
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55744 **IgG, Whole Molecule** 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: goat
Form: affinity purified liquid (F(ab')₂)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55704 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

55723 **IgG, Whole Molecule** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55737 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: rabbit
Form: lyophilized F(ab')₂.
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

56400 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
This antibody is NOT cross-reactive with human IgG whole molecule.

55721 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
This antibody is NOT cross-reactive with mouse IgG whole molecule.

55735 **IgG, Whole Molecule** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
This antibody is NOT cross-reactive with mouse IgG whole molecule.

55741 **IgG, Whole Molecule** 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: goat
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
This antibody is NOT cross-reactive with mouse IgG whole molecule.

55724 **IgG F(ab')₂** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Rat
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

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CATALOG NUMBER		
56401 0-5°C	IgG Fc, γ-Specific POLYCLONAL ANTIBODY Anti-Rat Host: goat Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55707 0-5°C	IgG Fc, γ-Specific POLYCLONAL ANTIBODY Anti-Rat Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55708 0-5°C	IgM, μ-Specific POLYCLONAL ANTIBODY Anti-Rat Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55725 0-5°C	IgM, μ-Specific POLYCLONAL ANTIBODY Anti-Rat Host: goat Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55739 0-5°C	IgM, μ-Specific POLYCLONAL ANTIBODY Anti-Rat Host: goat Form: affinity purified liquid Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
55743 0-5°C	IgM, μ-Specific POLYCLONAL ANTIBODY Anti-Rat Host: goat Form: affinity purified liquid F(ab') ₂ Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
55709 0-5°C	IMMUNOGLOBULINS POLYCLONAL ANTIBODY (Anti-IgG, IgA, and IgM) Anti-Rat Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55726 0-5°C	IMMUNOGLOBULINS POLYCLONAL ANTIBODY (Anti-IgG, IgA, and IgM) Anti-Rat Host: goat Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml

CATALOG NUMBER		
NEW	Kv 1.2 POLYCLONAL ANTIBODY Anti-Rat Host: rabbit Form: affinity purified, lyophilized Raised against C-terminal end of rat Kv 1.2 protein	
12025		50 μ l
12026		200 μ l
NEW 12029	Kv 1.4 POLYCLONAL ANTIBODY Anti-Rat Host: rabbit Form: affinity purified, lyophilized Raised against highly purified fusion protein of schistosoma Japonicum glutathione-s-transferase and C-terminal portion of rat Kv 1.4 protein	200 μ l
NEW 12032	Kv 1.6 POLYCLONAL ANTIBODY Anti-Rat Host: rabbit Form: affinity purified, lyophilized Raised against highly purified fusion protein of Schistosoma Japonicum glutathione-s-transferase and C-terminal portion of rat Kv 1.6 protein	200 μ l
NEW	Kv 2.1 POLYCLONAL ANTIBODY Anti-Rat Host: rabbit Form: lyophilized Raised against highly purified peptide Kv 2.1, corresponding to residues 837-853 of rat Kv 2.1 with additional N-terminal cysteine and tyrosine	
12033		50 μ l
12034		200 μ l
NEW 12037	Kv 3.1 b POLYCLONAL ANTIBODY Anti-Rat Host: rabbit Form: affinity purified, lyophilized Applications: Western blotting; Immunohistochemistry Raised in rabbit against highly purified peptide CKESPVIKYMPTAVRVT (rKv3.1b ₅₆₇₋₅₈₅), corresponding to residues 567-585 of rat Kv3.1b	200 μ l
NEW	Kv 3.2 POLYCLONAL ANTIBODY Anti-Rat Host: rabbit Form: affinity purified, lyophilized Raised against highly purified peptide RkV4.2 184-204, with additional C-terminal cysteine	
12038		50 μ l
12039		200 μ l
NEW	Kv 4.3 POLYCLONAL ANTIBODY Anti-Rat Host: rabbit Form: affinity purified, lyophilized	
12085		50 μ l
12086		200 μ l

CATALOG
NUMBER

NEW P2X1 PURINERGIC RECEPTOR
POLYCLONAL ANTIBODY
Anti-Rat
Host: rabbit
Form: affinity purified, lyophilized

12009 50 µl
12010 200 µl

NEW P2X2
POLYCLONAL ANTIBODY
Anti-Rat
Host: rabbit
Form: lyophilized
Raised against highly purified peptide P2X2 457-472, corresponding to residues 457-472 of rat P2X2 with additional N-terminal cysteine

12035 50 µl
12036 200 µl

NEW P2X4
POLYCLONAL ANTIBODY
Anti-Rat
Host: rabbit
Form: affinity purified, lyophilized

12011 50 µl
12012 200 µl

NEW P2X7 PURINERGIC RECEPTOR
POLYCLONAL ANTIBODY
Anti-Rat
Host: rabbit
Form: affinity purified, lyophilized

12083 50 µl
12084 200 µl

NEW PAN SODIUM CHANNEL
POLYCLONAL ANTIBODY
Anti-SP19
Host: rabbit
Form: affinity purified, lyophilized
This antibody is raised against SP19, corresponding to residues 1491-1508 of a subunit of rat type 1 voltage-gated sodium channel with additional C-terminal cysteine

12021 50 µl
12087 200 µl

11434 1 ml
0-5°C **PROLIFERATING CELL NUCLEAR ANTIGEN**
MONOCLONAL ANTIBODY
(Anti-PCNA; Anti-cyclin)
Anti-Rat
Clone: PC 10
Isotype: mouse IgG_{2a}
Conc/Titer: 1:5-1:20
Applications: Immunoblotting; Immunostaining of formalin-fixed, paraffin-embedded frozen tissue sections. The antibody was produced using recombinant rat PCNA antigen. It reacts with 36 kDa cyclin in immunoblotting and in immunohistochemistry. Reactivity can be lost after too long fixation times (>24 hours) or too high temperatures (>55°). PCNA is an excellent marker of proliferating cells in routinely processed tissue sections. This antibody cross-reacts with PCNA of all vertebrates. No reactivity is observed on frozen sections. It is supplied as clarified tissue culture supernatant with 1% BSA and 0.09% sodium azide.

CATALOG
NUMBER

55720 2 ml
0-5°C **TRANSFERRIN**
POLYCLONAL ANTIBODY
Anti-Rat
Host: rabbit
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

55734 5 ml
0-5°C **TRANSFERRIN**
POLYCLONAL ANTIBODY
Anti-Rat
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

55718 2 ml
0-5°C **WHOLE SERUM**
POLYCLONAL ANTIBODY
Anti-Rat
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

56005 2 ml
0-5°C **WHOLE SERUM**
POLYCLONAL ANTIBODY
Anti-Rat
Host: goat
Form: lyophilized
Applications: Forensic Applications; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
Forensic Antiserum

55733 5 ml
0-5°C **WHOLE SERUM**
POLYCLONAL ANTIBODY
Anti-Rat
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

55719 2 ml
0-5°C **WHOLE SERUM**
POLYCLONAL ANTIBODY
Anti-Rat
Host: rabbit
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

Antibodies to Other Antigens

10601 0-5°C	ACTIN MONOCLONAL ANTIBODY Anti-Chicken Clone: 647 Isotype: mouse IgM Conc/Titer: 1:5-1:20 Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions and acetone-fixed frozen tissue sections. Supplied as clarified ascites diluted with Tris buffer with 1% BSA and 0.09% sodium azide.	1 ml
11150 0-5°C	ADRENOCORTICOTROPIC HORMONE POLYCLONAL ANTIBODY Anti-ACTH Host: rabbit Form: liquid Conc/Titer: 1:50-1:100 Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, formalin-fixed paraffin-embedded tissue sections and acetone-fixed frozen tissue sections.	0.25 ml
55975 0-5°C	ALKALINE PHOSPHATASE POLYCLONAL ANTIBODY Anti-Bovine Host: goat Form: lyophilized (IgG) Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55269 0-5°C	ALBUMIN, BOVINE POLYCLONAL ANTIBODY Anti-Bovine Host: rabbit Form: lyophilized Applications: Immunoblotting.	2 ml
55275 0-5°C	ALBUMIN, BOVINE POLYCLONAL ANTIBODY Anti-Bovine Host: rabbit Form: lyophilized (IgG) Applications: Immunoblotting.	5 ml
56963 0-5°C	ALBUMIN, BOVINE POLYCLONAL ANTIBODY Anti-Bovine Host: rabbit Form: affinity purified liquid Applications: Immunoblotting.	2 mg
55296 0-5°C	ALBUMIN, CHICKEN POLYCLONAL ANTIBODY Anti-Chicken Host: rabbit Form: lyophilized Applications: Immunoblotting.	2 ml
55303 0-5°C	ALBUMIN, CHICKEN EGG POLYCLONAL ANTIBODY Anti-Chicken Egg Host: goat Form: lyophilized (IgG) Applications: Immunoblotting.	5 ml

CATALOG
NUMBER

55298 0-5°C	ALBUMIN, CHICKEN EGG POLYCLONAL ANTIBODY Anti-Chicken Egg Host: rabbit Form: lyophilized Applications: Immunoblotting.	2 ml
55304 0-5°C	ALBUMIN, CHICKEN EGG POLYCLONAL ANTIBODY Anti-Chicken Egg Host: rabbit Form: lyophilized (IgG) Applications: Immunoblotting.	5 ml
55314 0-5°C	ALBUMIN, DOG POLYCLONAL ANTIBODY Anti-Dog Host: rabbit Form: lyophilized Applications: Immunoblotting.	2 ml
55370 0-5°C	ALBUMIN, GUINEA PIG POLYCLONAL ANTIBODY Anti-Guinea Pig Host: rabbit Form: lyophilized Applications: Immunoblotting.	2 ml
11182 0-5°C	BOMBESIN POLYCLONAL ANTIBODY Anti-Frog Host: rabbit Form: liquid Applications: Immunostaining of cell suspensions, acetone-fixed frozen and formalin-fixed paraffin-embedded tissue sections. Rabbits were inoculated with <i>Rana</i> antigen. This antibody cross-reacts with human, mouse and rat systems.	0.25 ml
11200 0-5°C	BROMODEOXYURIDINE MONOCLONAL ANTIBODY Anti-BrdU Clone: II B5 Isotype: mouse IgG ₁ Conc/Titer: 1:50-1:20 Applications: Immunostaining of cell suspensions, acetone-fixed frozen sections, and formalin-fixed paraffin-embedded tissue sections. This antibody is produced by immunization of bromodeoxyuridine conjugated to BSA. It reacts strongly with free or carrier-protein conjugated BrdU but not with any other nucleoside (although it is 100% cross-reactive with iododeoxyuridine).	1 ml
55315 0-5°C	COMPLEMENT C3 POLYCLONAL ANTIBODY (Anti-C3) Anti-Dog Host: goat Form: lyophilized Applications: Immunoblotting.	2 ml

CATALOG
NUMBER

55371 **COMPLEMENT C3** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-C3)
Anti-Guinea Pig
Host: goat
Form: lyophilized
Applications: Immunoblotting.

10570 **DESMIN** 0.25 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Chicken
Host: rabbit
Form: liquid
Conc/Titer: 1:50-1:100
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
The antibody was prepared from desmin isolated from chicken gizzard and reacts specifically to 53 kDa desmin in immunoblotting and with the desmin of mature skeletal, cardiac and smooth muscle cells. It is cross-reactive with desmin from most mammals including human, mouse, rabbit, and rat and with most birds. The antiserum is supplied with 0.09% sodium azide.
Ref.: Garcia-Martinez, V., et al., *Anat. Embryol.*, **174**, 83-89 (1986).

55976 **β-GALACTOSIDASE** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Host: rabbit
Form: liquid (IgG)
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
This rabbit antiserum is purified by protein A chromatography. It is repeatedly absorbed with immobilized lysate from a β-gal (*Escherichia coli* strain). It shows minimum cross-reactivity to *E. coli* proteins in immunoblotting. It is also available as an affinity gel.

55338 **γ-GLOBULIN** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Goat
Host: rabbit
Form: lyophilized
Applications: ELISA; Immunoblotting; Immunostaining.

55372 **γ-GLOBULIN** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Guinea Pig
Host: goat
Form: lyophilized
Applications: ELISA; Immunoblotting; Immunostaining.

55423 **γ-GLOBULIN** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Monkey
Host: goat
Form: lyophilized
Applications: ELISA; Immunoblotting; Immunostaining.

55799 **γ-GLOBULIN** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Sheep
Host: rabbit
Form: lyophilized
Applications: ELISA; Immunoblotting; Immunostaining.

CATALOG
NUMBER

11184 **GLUCAGON** 0.25 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Swine
Host: rabbit
Form: liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
The original antigen was purified swine glucagon. The antiserum cross-reacts with human and rat tissues. It reacts with glucagon in the α-cells of the pancreatic islets and in the endocrine cells of the gut and in neurons in the brain.

11186 **GLYCENTIN** 0.25 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Swine
Host: rabbit
Form: liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
The original antigen was purified swine glycentin. The antiserum cross-reacts with human and rat glycentin and the glycentin-containing sequence of glucagon. It reacts with glucagon in the α-cells of the pancreatic islets and in the endocrine cells of the gut and in neurons in the brain.

57041 **HISTIDINE RESIDUES** 1 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Histidine Residues
Host: rabbit
Form: lyophilized
Applications: Immunoblotting; Immunoprecipitation and immunoaffinity chromatography of His-tagged proteins.
This antiserum reacts to histidine residues (hexamer) for detection and purification of recombinant DNA proteins which are extended with a number of histidine (His) residues. It is supplied lyophilized product of purified rabbit (IgG) with 1% BSA and 0.09% sodium azide.

55970 **HORSERADISH PEROXIDASE** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-HRP
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55973 **HORSERADISH PEROXIDASE** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-HRP
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55971 **HORSERADISH PEROXIDASE** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-HRP
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

Cappel Research Reagents

CATALOG NUMBER		
55974 0-5°C	HORSERADISH PEROXIDASE POLYCLONAL ANTIBODY Anti-HRP Host: rabbit Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55267 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Bovine Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55274 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Bovine Host: rabbit Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55278 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Bovine Host: rabbit Form: lyophilized F(ab') ₂ Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
56962 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Bovine Host: rabbit Form: affinity purified liquid Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
55286 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Cat Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55289 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Cat Host: goat Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
56964 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Cat Host: goat Form: affinity purified liquid Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg

CATALOG NUMBER		
55290 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Cat Host: rabbit Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55295 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Chicken Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55302 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Chicken Host: rabbit Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
56965 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Chicken Host: rabbit Form: affinity purified liquid Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
55310 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Dog Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55318 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Dog Host: goat Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
56966 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Dog Host: goat Form: affinity purified liquid Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
55311 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Dog Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml

CATALOG
NUMBER

55312 **IgG Fc, γ -Specific** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Dog
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55335 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Goat
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55341 **IgG, Whole Molecule** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Goat
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55346 **IgG, Whole Molecule** 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Goat
Host: rabbit
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55347 **IgG, Whole Molecule** 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Goat
Host: rabbit
Form: affinity purified liquid F(ab')₂
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55343 **IgG Fc, γ -Specific** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Goat
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55367 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Guinea Pig
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

56967 **IgG, Whole Molecule** 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Guinea Pig
Host: goat
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

55368 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Guinea Pig
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55394 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Hamster
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55397 **IgG, Whole Molecule** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Hamster
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

56984 **IgG, Whole Molecule** 2 mg
0-5°C **POLYCLONAL ANTIBODY**
Anti-Hamster
Host: goat
Form: affinity purified liquid
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55395 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Hamster
Host: rabbit
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55398 **IgG, Whole Molecule** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Hamster
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55403 **IgG, Whole Molecule** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Horse
Host: goat
Form: lyophilized
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55409 **IgG, Whole Molecule** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Horse
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

Cappel Research Reagents

CATALOG NUMBER		
56968 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Horse Host: goat Form: affinity purified liquid Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
55404 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Horse Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55418 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Monkey Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55425 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Monkey Host: goat Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55428 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Monkey Host: goat Form: lyophilized F(ab') ₂ Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55419 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Monkey Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55426 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Monkey Host: rabbit Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55794 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Sheep Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml

CATALOG NUMBER		
55802 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Sheep Host: rabbit Form: lyophilized (IgG) Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	5 ml
55807 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Sheep Host: rabbit Form: lyophilized F(ab') ₂ Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
56969 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Sheep Host: rabbit Form: affinity purified liquid Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
56970 0-5°C	IgG, Whole Molecule POLYCLONAL ANTIBODY Anti-Swine Host: rabbit Form: affinity purified liquid Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 mg
55268 0-5°C	IgM, μ-Specific POLYCLONAL ANTIBODY Anti-Bovine Host: rabbit Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
55313 0-5°C	IgM, μ-Specific POLYCLONAL ANTIBODY Anti-Dog Host: goat Form: lyophilized Applications: Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.	2 ml
11187 0-5°C	INSULIN POLYCLONAL ANTIBODY Anti-Swine Host: rabbit Form: liquid Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections. The original antigen was swine insulin. This antibody reacts with B-cells of the pancreatic islets. It cross-reacts to human and rat insulins.	0.25 ml

CATALOG
NUMBER

Microorganisms

The following antibodies were developed to react with live microorganisms without needing further processing of the bacteria (heat) to expose the epitopes which makes them ideal for use with untreated samples or enrichment broths. They have been produced by the culturing of hybridoma cells in protein-free medium (with 10% fetal bovine serum for antibodies 82.32 and 42.77). They have been purified by ammonium sulfate, low salt precipitation or Mono Q chromatography and filtered through a 0.22 µm filter. They are presented as liquid in PBS with 0.05% sodium azide.

59747 CLOSTRIDIUM DIFFICILE 100 µg
0-5°C **MONOCLONAL ANTIBODY**

Anti-C. difficile
Clone: 253/422

Applications: This antibody reacts with "live" *C. difficile* without requiring processing of the bacteria (heat) to expose the epitopes making them ideally suited for use with untreated samples or enrichment broths. It has been produced by culturing the hybridoma cells in protein-free medium and purified by ammonium sulfate, low salt precipitation and filtered through a 0.22 µm filter. It is supplied as liquid in PBS with 0.05% sodium azide (100 µg/vial).

59713 ESCHERICHIA COLI K1/NEISSERIA MENINGITIDIS 1 ml
0-5°C **GROUP B**

MONOCLONAL ANTIBODY
Anti-E.coli K1/N. meningitidis B
Clone: 82.32

Isotype: mouse IgM
Applications: This antibody reacts with "live" microorganisms without requiring processing of the bacteria (heat) to expose the epitopes making them ideally suited for use with untreated samples or enrichment broths. It has been produced by culturing the hybridoma cells in protein-free medium and purified by ammonium sulfate, low salt precipitation and filtered through a 0.22 µm filter. It is supplied as liquid in PBS with 0.05% sodium azide (100 µg/vial).

59708 SALMONELLA SEROGROUP A 1 ml
0-5°C **MONOCLONAL ANTIBODY**

Anti-Salmonella A
Clone: 47.15
Isotype: mouse IgM

Applications: This antibody reacts with "live" microorganisms without requiring processing of the bacteria (heat) to expose the epitopes making them ideally suited for use with untreated samples or enrichment broths. It has been produced by culturing the hybridoma cells in protein-free medium and purified by ammonium sulfate, low salt precipitation and filtered through a 0.22 µm filter. It is supplied as liquid in PBS with 0.05% sodium azide (100 µg/vial).

CATALOG
NUMBER

59709 SALMONELLA SEROGROUP B 1 ml
0-5°C **MONOCLONAL ANTIBODY**

Anti-Salmonella B
Clone: 28.17

Isotype: mouse IgG₃
Applications: This antibody reacts with "live" *C. difficile* without requiring processing of the bacteria (heat) to expose the epitopes making them ideally suited for use with untreated samples or enrichment broths. It has been produced by culturing the hybridoma cells in protein-free medium and purified by ammonium sulfate, low salt precipitation or Mono Q chromatography and filtered through a 0.22 µm filter. It is supplied as liquid in PBS with 0.05% sodium azide (100 µg/vial).

59710 SALMONELLA SEROGROUP C₁ 1 ml
0-5°C **MONOCLONAL ANTIBODY**

Anti-Salmonella C₁
Clone: 72.4

Isotype: mouse IgG₃
Applications: This antibody reacts with "live" *C. difficile* without requiring processing of the bacteria (heat) to expose the epitopes making them ideally suited for use with untreated samples or enrichment broths. It has been produced by culturing the hybridoma cells in protein-free medium and purified by ammonium sulfate, low salt precipitation or Mono Q chromatography and filtered through a 0.22 µm filter. It is supplied as liquid in PBS with 0.05% sodium azide (100 µg/vial).

59711 SALMONELLA SEROGROUP C₂ 1 ml
0-5°C **MONOCLONAL ANTIBODY**

Anti-Salmonella C₂
Clone: 35.43

Isotype: mouse IgM
Applications: This antibody reacts with "live" microorganisms without requiring processing of the bacteria (heat) to expose the epitopes making them ideally suited for use with untreated samples or enrichment broths. It has been produced by culturing the hybridoma cells in protein-free medium and purified by ammonium sulfate, low salt precipitation and filtered through a 0.22 µm filter. It is supplied as liquid in PBS with 0.05% sodium azide (100 µg/vial).

59712 SALMONELLA SEROGROUP D 1 ml
0-5°C **MONOCLONAL ANTIBODY**

Anti-Salmonella D
Clone: 41.11

Isotype: mouse IgG₁
Applications: This antibody reacts with "live" microorganisms without requiring processing of the bacteria (heat) to expose the epitopes making them ideally suited for use with untreated samples or enrichment broths. It has been produced by culturing the hybridoma cells in protein-free medium and purified by ammonium sulfate, low salt precipitation and filtered through a 0.22 µm filter. It is supplied as liquid in PBS with 0.05% sodium azide (100 µg/vial).

CATALOG
NUMBER

59746
0-5°C **SALMONELLA SEROGROUP E** 1 ml
MONOCLONAL ANTIBODY
Anti-Salmonella E
Clone: 42.77
Isotype: mouse IgG₃
Applications: This antibody reacts with "live" microorganisms without requiring processing of the bacteria (heat) to expose the epitopes making them ideally suited for use with untreated samples or enrichment broths. It has been produced by culturing the hybridoma cells in protein-free medium and purified by ammonium sulfate or Mono Q chromatography and filtered through a 0.22 μm filter. It is supplied as liquid in PBS with 0.05% sodium azide (100 μg/vial).

10605
0-5°C **MYOSIN** 1 ml
MONOCLONAL ANTIBODY
Anti-Chicken
Clone: 414
Isotype: mouse IgM
Conc/Titer: 1:5-1:20
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections and formalin-fixed, paraffin-embedded tissue sections. The original antigen was isolated from chicken muscle. The antiserum cross-reacts to human, mouse and rabbit. It reacts specifically to myosin in immunoblotting, immunodiffusion and ELISA. It is supplied as clarified tissue culture supernatant with 1% BSA and 0.09% sodium azide.

10511
0-5°C **NEUROFILAMENTS 200 kDa** 1 ml
MONOCLONAL ANTIBODY
Anti-Bovine
Clone: NF 402
Isotype: mouse IgM
Conc/Titer: 1:5-1:20
Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections and formalin-fixed, paraffin-embedded sections. The original antigen was isolated from bovine brain. The antibody reacts specifically with the human 200 kDa neurofilament subunits in immunoblotting and ELISA. There is no cross-reactivity with other intermediate filament proteins. It is supplied as clarified tissue culture supernatant with 1% BSA and 0.09% sodium azide.
Ref.: Hacker, G.W., et al., *Histochemistry*, **82**, 581-593 (1985).

11188
0-5°C **NEUROTENSIN** 0.25 ml
POLYCLONAL ANTIBODY
Anti-Bovine
Host: rabbit
Form: liquid
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections. The original antigen was synthetic bovine neurotensin. The antibody cross-reacts with human, cat, and rat neurotensin. It reacts with neurotensin localized in neurons within the hypothalamus and in endocrine cells of the ileum and the adrenal medulla.

CATALOG
NUMBER

11190
0-5°C **PANCREATIC POLYPEPTIDE** 0.25 ml
POLYCLONAL ANTIBODY
(Anti-PP)
Anti-Bovine
Host: rabbit
Form: liquid
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections. The original antigen was bovine pancreas polypeptide. The antibody cross-reacts with human and swine PP. It reacts with PP localized in the pancreatic islets, as well as, in the exocrine pancreas.

Prosomes

Prosomes are cellular particles (MW 720,000) of variable protein composition present from archeobacteria to the human species often associated to messenger RNA, higher order protease complexes and the intermediate filaments of the cytoskeleton. They are identical to the Multi-Catalytic Proteinase (MCP) Complexes or Proteasomes and the Low Molecular mass Protein (LMP) complex apparently involved in antigen presentation within the MHC-1 system.

Antibodies are characterized in immunoblotting of purified prosome antigens. They are generally cross-reactive with prosomes from eukaryotic cells of simple plants to human tissue. They are intended for immunoblotting and immunostaining of cell suspensions, frozen sections and paraffin-embedded sections. It is supplied as clarified ascites with 0.02% sodium azide.

References

- Zwicki, P., et al., *Biochem.*, **31**, 964-971 (1992).
Schmid, H.P., et al., *Embo Journal*, **3**, 29-34 (1984).
Scherrer, K., *Mol. Biol. Reports*, **14**, 1-9 (1990).
Rivett, A.J., *Arch. Biochem. Biophys.*, **268**, 1-8 (1989).
Goldberg, A.L. and Rock, K.L., *Nature*, **357**, 375-379 (1992).
Grossi de Sa, M.F., et al., *J. Cell Biol.*, **107**, 1517-1530 (1988).

59273
0-5°C **PROSOMES p21K** 0.5 ml
MONOCLONAL ANTIBODY
Anti-Duck
Clone: AD4
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions, frozen sections, and formalin-fixed, paraffin-embedded sections. The antibody cross-reacts to human (p33K/p70K), mouse (p33K), kangaroo-rat (p33K/p70K), duck (p21K/p33K/p70K) and chicken (p33K). It is supplied as clarified ascites with 0.02% sodium azide.
Ref.: 1. Zwicki, P. et al., *Biochemistry*, **31**, 964-971 (1992).
2. Schmid, H.P., et al., *Embo Journal*, **3**, 29-34 (1984).
3. Scherrer, K., *Molecular Biology Reports*, **14**, 1-9 (1990).

59274
0-5°C **PROSOMES p27K** 0.5 ml
MONOCLONAL ANTIBODY
Anti-Duck
Clone: IB5
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions, frozen sections, and formalin-fixed, paraffin-embedded sections. The antibody cross-reacts to human (p27K/p38K), monkey, mouse, kangaroo rat, chicken, drosophila (p29K), pleurodeles, axolotl, sea urchin, plants (p75K). It is supplied as clarified ascites with 0.02% sodium azide.
Ref.: 1. Zwicki, P. et al., *Biochemistry*, **31**, 964-971 (1992).
2. Schmid, H.P., et al., *Embo Journal*, **3**, 29-34 (1984).
3. Scherrer, K., *Molecular Biology Reports*, **14**, 1-9 (1990).

CATALOG
NUMBER

59275 **PROSOMES p29K** 0.5 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Duck
Clone: GD6
Isotype: mouse IgG_{2b}
Applications: Immunoblotting; Immunostaining of cell suspensions, frozen sections, and formalin-fixed, paraffin-embedded sections.
The antibody cross-reacts to human, kangaroo-rat, monkey, chicken, and pleurodeles. It shows poor reaction to mammalian antigens in immunoblotting. It is supplied as clarified ascites with 0.02% sodium azide.
Ref.: 1. Zwickl, P. et al., *Biochemistry*, **31**, 964-971 (1992).
2. Schmid, H.P., et al., *Embo Journal*, **3**, 29-34 (1984).
3. Scherrer, K., *Molecular Biology Reports*, **14**, 1-9 (1990).

59276 **PROSOMES p31K** 0.5 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Duck
Clone: AA4
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions, frozen sections, and formalin-fixed, paraffin-embedded sections.
The antibody cross-reacts to human, monkey, mouse, kangaroo rat, chicken, pleurodeles, and axolotyl. It is supplied as clarified ascites with 0.02% sodium azide.
Ref.: 1. Zwickl, P. et al., *Biochemistry*, **31**, 964-971 (1992).
2. Schmid, H.P., et al., *Embo Journal*, **3**, 29-34 (1984).
3. Scherrer, K., *Molecular Biology Reports*, **14**, 1-9 (1990).

55271 **RED BLOOD CELLS** 2 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Bovine
Host: rabbit
Form: lyophilized
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55276 **RED BLOOD CELLS** 5 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Bovine
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55306 **RED BLOOD CELLS** 5 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Chicken
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

55800 **RED BLOOD CELLS** 2 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Sheep
Host: rabbit
Form: lyophilized
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

55806 **RED BLOOD CELLS** 5 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Sheep
Host: rabbit
Form: lyophilized (IgG)
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.

11420 **S-100** 0.25 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Bovine
Host: rabbit
Form: liquid
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
The original antigen was isolated from bovine brain. The antibody is cross-reactive with human S100 protein.

NEW **SAP 102**
POLYCLONAL ANTIBODY
Host: rabbit
Form: affinity purified, lyophilized
12005 50 µl
12006 200 µl

11191 **SECRETIN** 0.25 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Porcine
Host: rabbit
Form: liquid
Applications: Immunoblotting; Immunostaining of acetone-fixed frozen and formalin-fixed, paraffin-embedded tissue sections.
The original antigen was purified swine secretin. The antibody is cross-reactive with human secretin. Also, it reacts with secretin-producing cells found in the proximal part of the duodenum and in the jejunum to a lesser extent.

55273 **TRANSFERRIN** 2 ml
0-5°C
POLYCLONAL ANTIBODY
Anti-Bovine
Host: rabbit
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

10610 **TUBULIN** 1 ml
0-5°C
MONOCLONAL ANTIBODY
Anti-Chicken
Clone: 655
Isotype: mouse IgM
Applications: ELISA; Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
The original antigen was purified from chicken muscle. The antibody reacts to human tubulin. It reacts specifically to tubulin in immunoblotting and ELISA. It is supplied as clarified ascites diluted with Tris buffer with 1% BSA and 0.09% sodium azide.

Cappel Research Reagents

CATALOG
NUMBER

11428 **VASOACTIVE INTESTINAL PEPTIDE** 0.25 ml
0-5°C **POLYCLONAL ANTIBODY**
(Anti-VIP)
Anti-Swine
Host: rabbit
Form: liquid
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
The antiserum to swine antigen is cross-reactive with human, mouse, rabbit, and rat VIP.

CATALOG
NUMBER

55272 **WHOLE SERUM** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Bovine
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

54

Primary & Secondary Antibodies

10565 **VIMENTIN** 0.25 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Bovine
Host: rabbit
Form: affinity purified liquid
Conc/Titer: 1:50-1:100
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
The original antigen was purified vimentin isolated from calf lens. The antiserum is cross-reactive with the vimentin of most mammals including human, mouse, rat and rabbit. It reacts specifically with the 57 kDa vimentin protein in immunoblotting and immunodiffusion. It stains cells of mesenchymal origin including fibroblasts, endothelial cells, some smooth muscle cells, chondrocytes, lymphocytes and blood cells. It is supplied in 0.15M phosphate buffered saline with 1% BSA and 0.09% sodium azide.
Ref.: Henzen-logmans, S.C., et al., *Virchows Arch. A*, **140**, 347-354 (1987).

55998 **WHOLE SERUM** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Bovine
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
Forensic Antiserum

10515 **VIMENTIN** 1 ml
0-5°C **MONOCLONAL ANTIBODY**
Anti-Bovine
Clone: V9
Conc/Titer: 1:50-1:200
Isotype: mouse IgG₁
Applications: Immunoblotting; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded (microwaved) tissue sections. The original antigen was purified calf lens. The antibody reacts specifically to 57 kDa vimentin protein in immunoblotting. Additionally, it reacts specifically with cells of mesenchymal origin including fibroblasts, endothelial cells, smooth muscle cells, chondrocytes, lymphocytes and blood cells. It cross-reacts with vimentin of most mammals including human, mouse, rat and rabbit. It is supplied as clarified cell culture supernatant with 1% BSA and 0.09% sodium azide.
Ref.: Muijen, G.N.P. van, et al., *Lab. Invest.*, **57** (4), 359-369 (1987).

55277 **WHOLE SERUM** 5 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Bovine
Host: goat
Form: lyophilized (IgG)
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

56009 **WHOLE SERUM** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Bear
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
Forensic Antiserum

55288 **WHOLE SERUM** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Cat
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
Forensic Antiserum

55999 **WHOLE SERUM** 2 ml
0-5°C **POLYCLONAL ANTIBODY**
Anti-Cat
Host: goat
Form: lyophilized
Applications: Forensic Applications; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
Forensic Antiserum

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Outside the U.S.: (714) 545-0100 fax (714) 557-4872

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E-mail: sales@icnbiomed.com



CATALOG
NUMBER

55301 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Chicken
Host: rabbit
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

56000 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Chicken
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
Forensic Antiserum

56008 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Deer
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
Forensic Antiserum

55317 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Dog
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

56001 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Dog
Host: rabbit
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
Forensic Antiserum

55340 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Goat
Host: rabbit
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

CATALOG
NUMBER

55408 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Horse
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

56002 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Horse
Host: goat
Form: lyophilized
Applications: Forensic Applications; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
Forensic Antiserum

56006 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Sheep
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
Forensic Antiserum

55820 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Swine
Host: goat
Form: lyophilized
Applications: Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.

56007 **WHOLE SERUM** 2 ml
 0-5°C **POLYCLONAL ANTIBODY**
Anti-Swine
Host: goat
Form: lyophilized
Applications: Forensic Applications; Immunostaining of cell suspensions, acetone-fixed frozen tissue sections, and formalin-fixed, paraffin-embedded tissue sections.
Forensic Antiserum