



BMA BIOMEDICALS

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Monoclonal Antibody to Human CD71 Transferrin Receptor, T9

Monoclonal antibody VIP-1 recognizes CD71 and is useful for the typing of leukemias and the detection of proliferating cells in frozen tissue sections. CD71 is a homodimeric membrane glycoprotein consisting of two disulfide-bonded 95kD chains. It is a type II membrane protein with a short aminoterminal cytoplasmic domain of 61 amino acid residues which mediates internalization and recycling, a single transmembrane region of 28 amino acid residues, and a large extracellular transferrin-binding domain of 671 residues. Other significant structural features include N-linked and O-linked glycans and the covalent attachment of palmitic acid to cystein residues close to the cytoplasmic face of the membrane.

Product number: T-1205

Clone: VIP-1

Lot: 01PO9202

TECHNICAL AND ANALYTICAL CHARACTERISTICS:

Host species, subclass: Mouse IgG1

Quantity: 100µg

Format: Affinity purified, lyophilized

Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.02% sodium azide as a preservative.

Stability: Original vial: 1 year at 4° - 8°C

Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.

Applications: Tested for immunohistochemistry (IHC).

Approximate working dilution for IHC:

Frozen sections: 2-4µg/ml (1:50 - 1:100)

Paraffin sections: not tested.

Optimal dilutions should be determined by the end user.

Suggested positive control: Human tonsil.

Please see www.bma.ch for protocols and general information.

Immunogen: KG-1 cells.

Antigen distribution: Positive on activated T and B cells, macrophages and on proliferating cells. Negative on non-activated lymphocytes, monocytes and granulocytes.

Specificity:**Human:** Transferrin receptor.**Other species:** not tested.

Selected references

Knapp, W.: Monoclonal Antibodies in Haematology. *Verh. Dtsch. Ges. Path.* 67: 54-64 (1983)

CD71 Workshop in "Leucocyte Typing IV" (Vienna 1989) Oxford University Press (W. Knapp, B. Doerken, W.R. Gilks, E.P. Riebar, R.E. Schmidt, H. Stein & A. von dem Borne eds.

For in vitro research only. Caution: this product contains sodium azide, a poisonous and hazardous substance.