



BMA BIOMEDICALS

Monoclonal Antibody to Human CD71

Transferrin Receptor, T9

Monoclonal antibody VIP-1 recognizes CD71 and is useful for the typing of leukaemia's and the detection of proliferating cells in frozen tissue sections. CD71 is a homodimer membrane glycoprotein consisting of two disulfide-bonded 95kD chains. It is a type II membrane protein with a short amino terminal 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 cysteine residues close to the cytoplasmic face of the membrane.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-1205 (Lot 01PO9202)
Clone:	VIP-1
Host species, isotype:	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 from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
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
Protein database:	<u>human-P02786</u>

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. This product contains sodium azide as a preservative.