



## Peninsula Laboratories, LLC

A Member of the Bachem Group

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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.

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<b>Product Number:</b>	T-1205
<b>Clone:</b>	VIP-1
<b>Host species, isotype:</b>	Mouse IgG1
<b>Quantity:</b>	100µg
<b>Format:</b>	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.
<b>Stability:</b>	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
<b>Applications:</b>	Tested for immunohistochemistry (IHC). <b>Approximate working dilution for IHC:</b> 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.
<b>Immunogen:</b>	KG-1 cells.
<b>Antigen distribution:</b>	Positive on activated T and B cells, macrophages and on proliferating cells. Negative on non-activated lymphocytes, monocytes and granulocytes.
<b>Specificity:</b>	<b>Human:</b> Transferrin receptor. <b>Other species:</b> not tested.

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#### Selected references



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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.