



Peninsula Laboratories, LLC

A Member of the Bachem Group

305 Old County Road, San Carlos, CA 94070

Tel: (800) 922-1516 • (650) 592-5392

Fax: (650) 595-4071

www.bachem.com

Monoclonal Antibody To Human CD71 Marker for the Transferrin Receptor

Monoclonal antibody SOM4D10 recognizes the human CD71 antigen, the transferrin receptor. CD71 is a proliferation-associated homodimeric membrane glycoprotein consisting of two disulfide-bonded 95kD chains. CD71 is a type II membrane protein with short aminoterminal cytoplasmic domain which mediates internalization and recycling, a single transmembrane region, and a large extracellular transferrin-binding domain. CD71 contains N-linked and O-linked glycans, as well as palmitic acid covalently attached to cysteine residues close to the cytoplasmic face of the membrane.

Product Number:	T-1372
Clone:	SOM4D10
Host species, isotype:	Mouse IgG2b
Quantity:	200µg
Format:	Affinity purified, lyophilized Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA), and 0.09% 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); has been described to work in FACS. Approximate working dilution for IHC: Frozen sections: 1-3µg/ml (1:130 - 1:400) Paraffin sections: not tested Optimal dilutions should be determined by the end user. Suggested positive control: Human tonsil immunogen: n.a.
Antigen, epitope:	The antigen is CD71. The epitope has not been further characterized.



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Antigen distribution:

Isolated cells: The antibody stains > 90% of activated human peripheral blood lymphocytes in flow cytometry.

Tissue sections: Germinal center; basal layer of epidermis; tissue macrophages; testis.

Specificity:

Human: CD71

Other: not tested.

Selected references

Barclay, Brown et al., The Leukocyte Antigen FactsBook, 2nd edition, Harcourt Brace & Company, London, (1997)

Kishimoto, Kikutani et al. (eds.), Leukocyte typing VI., Garland Publishing Inc., New York & London, (1997)

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