



## 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

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### 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.

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<b>Product Number:</b>	T-1372
<b>Clone:</b>	SOM4D10
<b>Host species, isotype:</b>	Mouse IgG2b
<b>Quantity:</b>	200µg
<b>Format:</b>	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.
<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); has been described to work in FACS.  <b>Approximate working dilution for IHC:</b> 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 tonsill <b>Immunogen:</b> n.a.
<b>Antigen, epitope:</b>	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.

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### Selected references

Barclay, Brown et al., The Leukocyte Antigen FactsBook, 2<sup>nd</sup> 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.