



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 CD7 Early Differentiation Marker for T cells

Monoclonal antibody 142.9 recognizes human CD7, a 40kD cell surface glycoprotein. CD7 is one of the earliest differentiation markers expressed by immature T cells and is also expressed by mature T cells and NK cells, and is a clinical marker for T cell acute lymphocytic leukemia (ALL). Functional studies have shown that CD7 monoclonal antibodies can directly activate $\gamma\delta$ -positive T cells.

Product Number:	T-1365
Clone:	142.9
Host species, isotype:	Mouse IgG1
Quantity:	100 μ g
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), 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 μ g/ml (1:200) Paraffin sections: not tested Optimal dilutions should be determined by the end user. Suggested positive control: Human tonsil Immunogen: Human T cells
Antigen, epitope:	The antigen is CD4. The epitope has not been further characterized.



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Antigen distribution:

Isolated cells: The antibody stains approximately 50-90% of human peripheral blood mononuclear cells.

Specificity:

Human: CD7

Other: not tested.

Selected references

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

Knapp, W. et al. (eds), Leukocyte typing IV., Oxford University Press, Oxford (1989)

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