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## 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.

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<b>Product Number:</b>	T-1365 (Lot 01PO0801)
<b>Clone:</b>	142.9
<b>Host species, isotype:</b>	Mouse IgG1
<b>Quantity:</b>	100 $\mu$ g
<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), 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 $\mu$ g/ml (1:200) Paraffin sections: not tested  Optimal dilutions should be determined by the end user. Suggested positive control: Human tonsil  Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Immunogen:</b>	Human T cells
<b>Antigen, epitope:</b>	The antigen is CD4. The epitope has not been further characterized.

<b>Antigen distribution:</b>	<b>Isolated cells:</b> The antibody stains approximately 50-90% of human peripheral blood mononuclear cells.
<b>Specificity:</b>	<b>Human:</b> CD7 <b>Other:</b> 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)

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.