
Monoclonal Antibody To Human CD3

Marker for Thymocytes and Peripheral T cells

Monoclonal antibody CRIS-7 recognizes the CD3 antigen on mature human T-cells. The CD3 antigen is a protein complex composed of four distinct chains (CD3 γ , CD3 δ and two CD3 ϵ) that associate with the T cell receptor (TCR) and the ζ -chain to generate an activation signal in T lymphocytes. The TCR, ζ -chain and CD3 molecules together comprise the TCR complex. The CD3 γ , CD3 δ and CD3 ϵ chains are highly related cell surface proteins of the immunoglobulin superfamily containing a single extracellular immunoglobulin domain.

This antibody does not react with formalin fixed cells. Please see product T-1363, clone UCHT-1 as an alternative.

Product Number:	T-1362 (Lot 01PO0801)
Clone:	CRIS-7
Host species, isotype:	Mouse IgG2a/kappa
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: \leq 0.1 μ g/ml (1:2000) Paraffin sections: the epitope is not fixation resistant. Optimal dilutions should be determined by the end user. Suggested positive control: Human tonsil Please see www.bma.ch for protocols and general information.
Immunogen:	Stimulated human leukocytes.
Antigen, epitope:	The antigen is CD3. The epitope has not been further characterized.

Antigen distribution: **Isolated cells:** Peripheral T cells
Specificity: **Human:** CD3
 Other: Rhesus monkey

Selected references

- Reinherz, E. L. et al. (eds.), Leukocyte typing II., Springer Verlag, New York, (1986)
- Barclay, Brown et al., The Leukocyte Antigen FactsBook, 2nd edition, Harcourt Brace & Company, London, (1997)
- Alberola- Ila, J. et al., Stimulation through the TCR/CD3 complex up-regulates the CD2 surface expression on human T lymphocytes. J. Immunol. 146 : 1085 - 1092, (1991)

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