BMA BIOMEDICALS

Biotinylated 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 (CD3γ, CD3δ and two CD3ε) 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 CD3γ, CD3δ and CD3ε 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.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-1378 (Lot 01PB1313)
Clone:	CRIS-7
Host species, isotype:	Mouse IgG2a, kappa light chain
Quantity:	100µg
Format:	Affinity purified, biotinylated, 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 0.05% (v/v) Kathon™ CG as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Applications:	Tested for immunohistochemistry (IHC); has been described to work in FACS.
	Approximate working dilution for IHC:
	Frozen sections: 0.5µg/ml (1:400) Paraffin sections: not tested Optimal dilutions should be determined by the end user.
	Suggested positive control**:** Human tonsil
	Please see **www.bma.ch** for protocols and general
Immunogen:	Stimulated human leukocytes.
Antigen, epitope:	The antigen is CD3. The epitope has not been further characterized.

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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. This product contains Kathon™ CG as a preservative.

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