



Peninsula Laboratories, LLC

A Member of the Bachem Group

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Monoclonal Antibody To Human CD3 Marker for Thymocytes and Peripheral T cells

Monoclonal antibody UCHT-1 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.

Product Number:	T-1363
Clone:	UCHT-1
Host species, isotype:	Mouse IgG1/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: 0.2 μ g/ml (1:1000) Paraffin sections: not determined Optimal dilutions should be determined by the end user. Suggested positive control: Human tonsil. Immunogen: Human thymocytes followed by Sezary T cells.
Antigen, epitope:	The antigen is CD3. The epitope is located on the ϵ chain.



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Antigen distribution:

Isolated cells: The antibody stains approximately 60-90% of human peripheral blood mononuclear cells in flow cytometry.

Specificity:

Human: CD3

Other: not tested.

Selected references

McMichael, A.J. et al. (eds.), Leukocyte typing III., Oxford University Press, Oxford, (1987)

Kishimoto, Kikutani et al. (eds.), Leukocyte typing VI., Garland Publishing Inc., New York & London, (1997)

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

Beverly and Callard, Euro. J. Immunol. 11: p329-334 (1981)

J.A. Garson et al. Nature 298: p375-377 (1982)

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