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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 (Lot 01PO0801)

Clone: UCHT-1

Host species, isotype: Mouse IgG1/kappa

Quantity: 100μg

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: $0.2\mu g/ml$ (1:1000) Paraffin sections: not determined

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: Human thymocytes followed by Sezary T cells.

Antigen, **epitope**: The antigen is CD3. The epitope is located on the ε chain.

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.

T-1363 UCHT-1 20.03.2008