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Product datasheet for SM1057B

CD3E Mouse Monoclonal Antibody [Clone ID: UCHT1]

Product data:

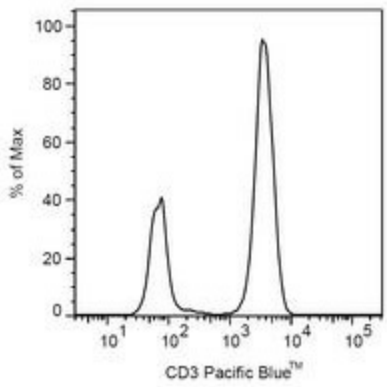
Product Type:	Primary Antibodies
Clone Name:	UCHT1
Applications:	FC
Recommended Dilution:	Indirect immunofluorescence analysis by **Flow Cytometry**.
Reactivity:	Human, Primate
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human thymocytes followed by Sezary T cells
Specificity:	This antibody recognizes the CD3 antigen of the TCR/CD3 complex on mature human T cells. The UCHT1 antibody reacts with the epsilon chain of the CD3 complex.
Formulation:	Phosphate buffered saline (PBS) Label: Biotin State: Liquid purified IgG fraction Preservative: 15 mM sodium azide, approx. pH 7.4 Label: Conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Concentration:	lot specific
Conjugation:	Biotin
Storage:	Store undiluted at 2-8°C. **DO NOT FREEZE!**
Stability:	Shelf life: one year from despatch.
Gene Name:	CD3e molecule
Database Link:	Entrez Gene 916 Human P07766

View online »

Background: CD3 complex is crucial in transducing antigen-recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR complex. T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3 gamma, CD3 delta, CD3 epsilon and CD3 zeta. These CD3 subunits are structurally related members of the immunoglobulins super family encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules. This association is mediated at least in part by a double tyrosine-based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR-induced growth arrest, cell survival and proliferation.The CD3 antigen is present on 68-82% of normal peripheral blood lymphocytes, 65-85% of thymocytes and Purkinje cells in the cerebellum. It is never expressed on B or NK cells. Decreased percentages of T lymphocytes may be observed in some autoimmune diseases.

Synonyms: T3/Leu-4

Product images:



Surface staining of human peripheral blood cells with anti-human CD3 (UCHT1) Pacific Blue™. Cells in the lymphocyte gate were used for analysis.