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Product datasheet for SM1057AF

CD3E Mouse Monoclonal Antibody [Clone ID: UCHT1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UCHT1
Applications:	FC, FN, IHC, IP
Recommended Dilution:	 Flow Cytometry: The epitope for UCHT1, CD3 is resistant to fixation. For purposes where pre-fixed cells are stained, this antibody is recommended. Immunoprecipitation. Immunohistochemistry on Frozen Sections. Functional Assay: The immobilized UCHT1 antibody initiates a signaling pathway resulting in T cell activation and proliferation.
Reactivity:	Human, Monkey
Host:	Mouse
lsotype:	lgG1
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:	Azide Free phosphate buffered saline (PBS), pH~7.4 and 0.2 μm filter sterilized State: Azide Free State: Liquid purified lg fraction (> 95% pure by SDS-PAGE)
Concentration:	lot specific
Purification:	Protein-A Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	CD3e molecule
Database Link:	<u>Entrez Gene 699467 MonkeyEntrez Gene 916 Human</u> <u>P07766</u>

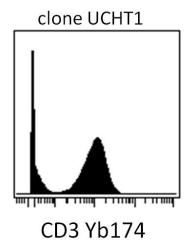


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GRIGENE CD3E Mouse Monoclonal Antibody [Clone ID: UCHT1] – SM1057AF

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
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway

Product images:



Surface staining (mass cytometry) of PBMC after Ficoll-Paque separation with anti-human CD3 (UCHT1) Yb174. Gated on singlets.

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