

## Product datasheet for **SM1057LE**

### CD3E Mouse Monoclonal Antibody [Clone ID: UCHT1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	UCHT1
Applications:	FC, IHC
Recommended Dilution:	<b>Flow Cytometry:</b> Use 10 µl of 1/50-1/100 diluted antibody to label 100 µl of whole blood. <b>Immunohistochemistry on Frozen Sections.</b>
Reactivity:	Human, Primate
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human infant thymocytes and lymphocytes from a patient with Sezary Syndrome.
Specificity:	This antibody recognises a surface protein of peripheral blood T cells of molecular weight 19kD. As a pan T cell marker this antibody is present on more than 95% of circulating Human peripheral T cells.
Formulation:	PBS without preservatives State: Low Endotoxin State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD3e molecule
Database Link:	<a href="#">Entrez Gene 916 Human P07766</a>



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**Background:**

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

**Note:**

Endotoxin Level: less than 0.01 EU/μg