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Product datasheet for SM1057F

CD3E Mouse Monoclonal Antibody [Clone ID: UCHT1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UCHT1
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 μl of 1/10 diluted antibody to label 1 ® cells or 100 μl of lysed whole peripheral blood.
Reactivity:	Human, Primate
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Human infant thymocytes and lymphocytes from a patient with Sezary Syndrome. Spleen cells from immunised BALB/c mice were fused with cells of the P3/NS1/1-Ag4-1 mouse myeloma cell line.

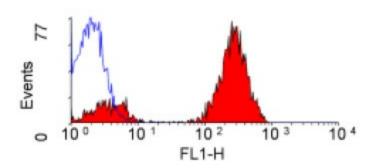


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Specificity:	This antibody recognizes a surface protein of peripheral blood T cells of molecular weight 19kD. As a pan T cell marker this antibody is present on more than 95% of circulating human peripheral T cells.
	 This antibody, clone UCHT1 recognizes the Human T-cell surface glycoprotein CD3 epsilon chain, also known as T-cell surface antigen T3/Leu-4 epsilon chain or CD3?. CD3? is a 207 amino acid, ~21kDa single pass type 1 transmembrane protein containing a single Ig-like and a single ITAM domain. This CD3 antibody, clone UCHT1 was originally described as only binding to CD3? when complexed with either the CD3? or CD3? subunits, as indicated by cotransfection immunofluorescence studies on COS cells (<i>Salmerón et al.</i> 1991). This CD3 antibody, clone UCHT1 binds to a region in the ectodomain of Human CD3? and has been shown to bind to a discontinuous epitope near an acidic region of CD3? opposite the dimer interface; as shown by crystallographic studies of the CD3?/? dimer complexed with a single chain UCHT1 antibody fragment (<i>Arnett et al.</i> 2004). CD3 is expressed by all T lymphocytes and is seen in all lymphoid organs including lymph nodes and spleen. It is involved in thymocyte differentiation (<i>Brodeur et al.</i> 2009). Deficiency of the CD3? chain contriutes to blocking T-cell development and presentation of a severe combined immunodeficiency phenotype (<i>Fischer et al.</i> 2005). This antibody, clone UCHT1 has been used successfully for the activation of Human paripheral blood lymphocytes by cross linking and subsequently for CD3? surface espression by flow cytometry (<i>Hirsh and Cohen</i> 2006).
ormulation:	PBS Label: FITC State: Liquid purified IgG fraction from tissue culture supernatant Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide Label: Fluorescein Isothiocyanate Isomer 1
oncentration:	lot specific
urification:	Affinity Chromatography on Protein G
onjugation:	FITC
torage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
tability:	Shelf life: one year from despatch.
ene Name:	CD3e molecule
atabase Link:	<u>Entrez Gene 916 Human</u> <u>P07766</u>
ackground:	CD3 is a surface protein of peripheral blood T cells of molecular weight 19 kD. The pan T cell marker is present on more than 95% of circulating human peripheral T cells.

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Product images:



staining of human peripheral blood lymphocytes.

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