

Product datasheet for **CF807198**

CD3E Mouse Monoclonal Antibody [Clone ID: UCHT1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UCHT1
Applications:	FC, WB
Recommended Dilution:	WB 1:2000, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human infant thymocytes and lymphocytes from a patient with Sézary disease
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	20.7 kDa
Gene Name:	CD3e molecule
Database Link:	NP_000724 Entrez Gene 916 Human P07766



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Background:

The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gamma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women. [provided by RefSeq, Jul 2008]

Synonyms:

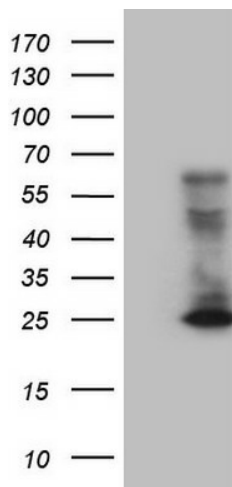
IMD18; T3E; TCRE

Protein Families:

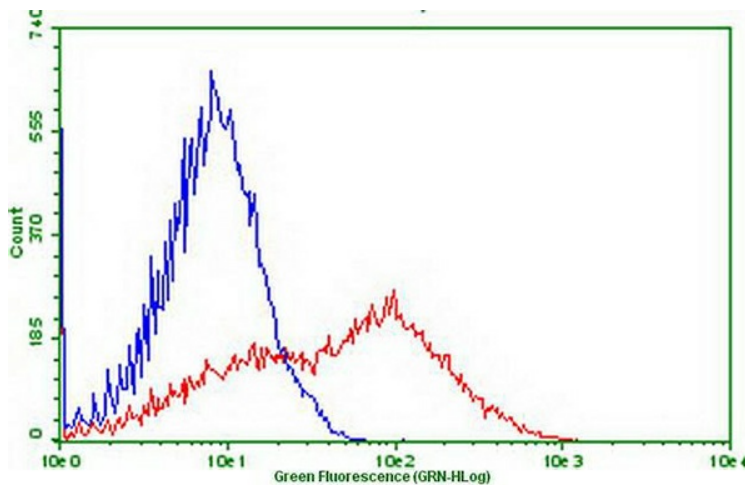
Druggable Genome, Transmembrane

Protein Pathways:

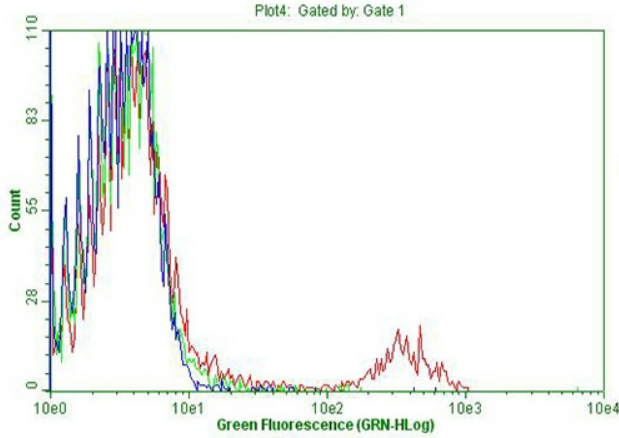
Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway

Product images:


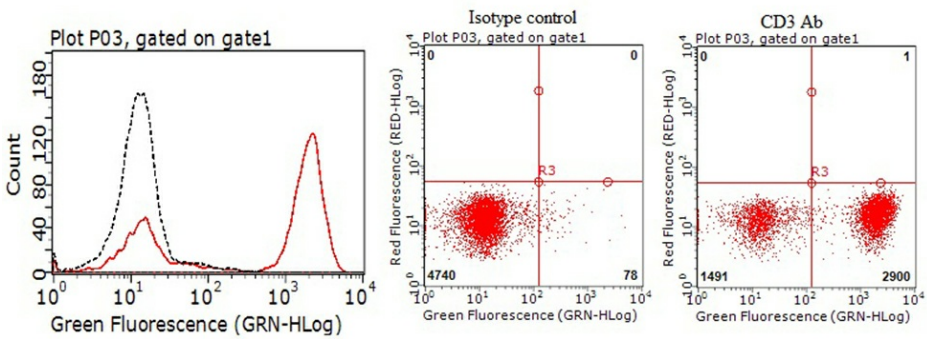
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CD3 ([RC208276], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD3 (1:2000). Positive lysates [LY400242] (100ug) and [LC400242] (20ug) can be purchased separately from OriGene.



Flow cytometric Analysis of live Jurkat cells, using anti-CD3 antibody ([TA807198]), (Red), compared to a nonspecific negative control antibody (Mouse-IgG), (Blue) (1:100).



Flow cytometric Analysis of living RBC-lysed human peripheral blood cells, using anti-CD3 antibody ([TA807198], Red), compared to an IgG isotype control (green), and negative control (PBS, Blue) (1:100).



Flow cytometric Analysis of living peripheral blood mononuclear cells (PBMC), using anti-CD3 antibody ([TA807198], Red), compared to an IgG isotype control (Blank) (1:100).