

## Product datasheet for **CF506064**

### CD3E Mouse Monoclonal Antibody [Clone ID: OTI3E10]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3E10
Applications:	IF, WB
Recommended Dilution:	WB 1:200~4000, IF 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human CD3E(NP_000724) produced in HEK293T cell.
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:	<a href="#">NP_000724</a> <a href="#">Entrez Gene 916 Human P07766</a>



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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:**

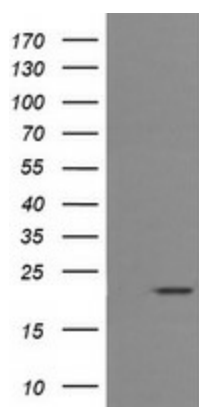
IMD18; T3E; TCRE

**Protein Families:**

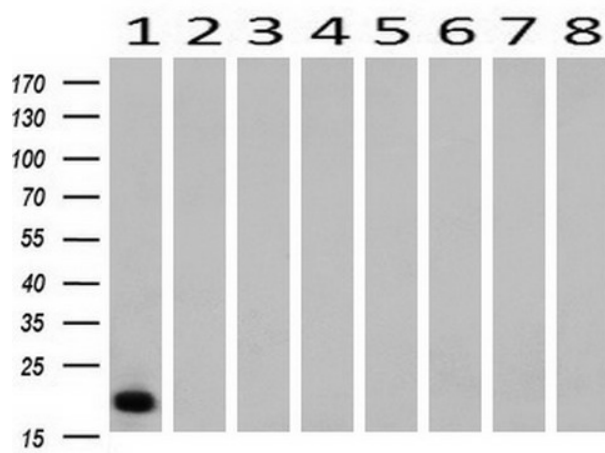
Druggable Genome, Transmembrane

**Protein Pathways:**

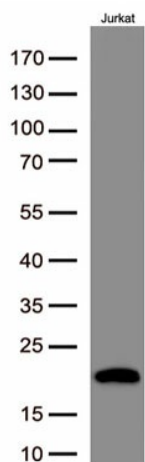
Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway

**Product images:**


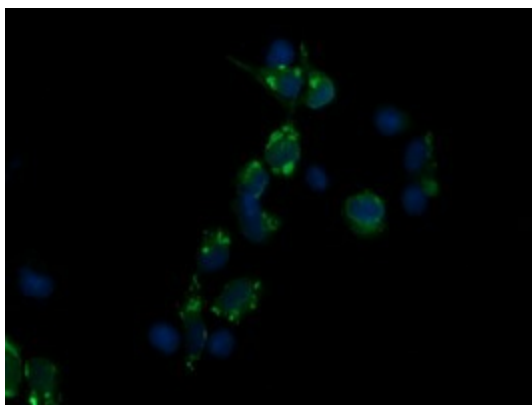
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CD3E (Cat# [RC208276], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD3E (Cat# [TA506064]). Positive lysates [LY400242] (100ug) and [LC400242] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (10ug) from 8 Human tissue by using anti-CD3E monoclonal antibody at 1:200 (1: Testis; 2: Uterus; 3: Breast; 4: Brain; 5: Liver; 6: Ovary; 7: Thyroid gland; 8: Colon).



Western blot analysis of extracts(50ug) from Jurkat cell lines lysates by using anti-CD3E monoclonal antibody. ([TA506064], 1:500)



Anti-CD3E mouse monoclonal antibody ([TA506064]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY CD3E ([RC208276]).