

Product datasheet for UM500048CF

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CD3E Mouse Monoclonal Antibody [Clone ID: UMAB54]

Product data:

Product Type: Primary Antibodies

Clone Name: UMAB54
Applications: IF, WB

Recommended Dilution: WB 1:500, 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: NP 000724

Entrez Gene 916 Human

P07766



CD3E Mouse Monoclonal Antibody [Clone ID: UMAB54] - UM500048CF

Background:

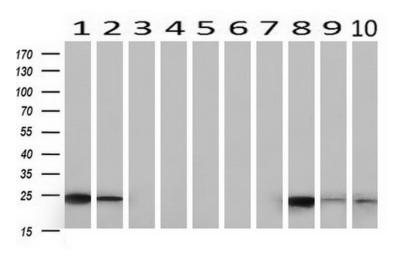
The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gamma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular 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

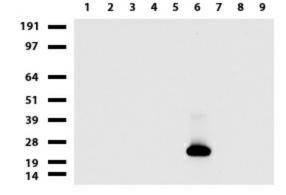
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway

Product images:

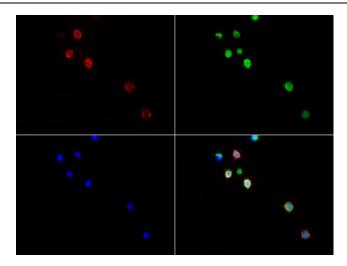


Western blot analysis of extracts (10ug) from 10 Human tissue by using anti-CD3E monoclonal antibody at 1:500 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon;10: spleen).



Western blot analysis of extracts (35ug) from 9 different cell lines (1: HepG2, 2: HeLa, 3: SV-T2, 4: A549, 5: COS7, 6: Jurkat, 7: MDCK, 8: PC-12, 9: MCF7) by using anti-CD3E clone UMAB54 monoclonal antibody. (Cat# [UM500048]; Diluation: 1:500).





Immunofluorescent staining of Jurkat cells using CD3E mouse monoclonal antibody ([UM500048], green). Actin filaments were labeled with TRITC-phalloidin (red), and nuclear with DAPI (blue). The three-color overlay image is located at the bottom-right corner.