

CD3E

Reactivity: Human Mouse Rat

Tested applications: WB IHC IF

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

Calculated MW: 23kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human CD3E

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

b

Synonym:

CD3; FLJ18683; T3E; TCRE;

Catalog #: A1753

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 916

Isotype: IgG

Swiss Prot: P07766

Purity: Affinity purification

For research use only.

Background:

When T cells encounter antigens via the T cell receptor (TCR), information about the quantity and quality of antigens is relayed to the intracellular signal transduction machinery (1). This activation process depends mainly on CD3 (Cluster of Differentiation 3), a multiunit protein complex that directly associates with the TCR. CD3 is composed of four polypeptides: ϵ , δ , γ , and ζ . Each of these polypeptides contains at least one immunoreceptor tyrosine-based activation motif (ITAM) (2). Engagement of TCR complex with foreign antigens induces tyrosine phosphorylation in the ITAM motifs and phosphorylated ITAMs function as docking sites for signaling molecules such as ZAP-70 and p85 subunit of PI-3 kinase (3,4). TCR ligation also induces a conformational change in CD3, such that a proline-region is exposed and then associates with the adapter protein Nck (5).

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