

Product datasheet for TA327165

CD3E Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, IP, WB

Reactivity: WB 1:500 - 1:2000 Human, Mouse, Rat

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: Recombinant protein of human CD3E

Formulation: Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50%

glycerol, pH7.3

Concentration: lot specific

Purification: Affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Gene Name: CD3e molecule

Database Link: NP 000724

Entrez Gene 12501 MouseEntrez Gene 315609 RatEntrez Gene 916 Human

P07766



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Background:

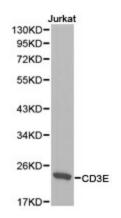
When T cells encounter antigens via the T cell receptor (TCR), information about the quantity and quality of antigens is relayed to the intracellular signal transduction machinery (1). This activation process depends mainly on CD3 (Cluster of Differentiation 3), a multiunit protein complex that directly associates with the TCR. CD3 is composed of four polypeptides: \(\tilde{A}, \) \(\tilde{A}, \) \(\tilde{A} \) and \(\tilde{A} \). 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 \(\tilde{A} \), such that a proline-region is exposed and then associates with the adapter protein Nck (5).1. Kuhns, M.S. et al. (2006) Immunity 24, 133-139.2. Pitcher, L.A. and van Oers, N.S. (2003) Trends Immunol. 24, 554-560.3. Osman, N. et al. (1996) Eur. J. Immunol. 26, 1063-1068.4. Hatada, M.H. et al. (1995) Nature 377, 32-38.5. Gil, D. et al. (2002) Cell 109, 901-912.

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 of Jurkat cell lines, using CD3E antibody.