



Rabbit Anti-Human Cd3e monoclonal antibody, clone TZ1340 (CABT-L629)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	CD3 epsilon
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	TZ1340
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, IHC, IP, FC
Molecular Weight	23 kDa
Cellular Localization	Cell membrane.
Positive Control	Jurkat, human tonsil tissue, human thymus tissue, human spleen tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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BACKGROUND

Introduction	The T cell antigen receptor (TCR) recognizes foreign antigens and translates such recognition events into intracellular signals that elicit a change in the cell from a dormant to an activated state. Much of this signaling process can be attributed to a multisubunit complex of proteins that associates directly with the TCR. This complex has been designated CD3 (cluster of differentiation 3). CD3 is composed of four polypeptides: ζ, γ, ε and δ. Each of these polypeptides contains at least one immunoreceptor tyrosine-based activation motif (ITAM). 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. TCR ligation also induces a conformational change in CD3ε, such that a proline region is exposed and then associates with the adaptor protein Nck.
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Keywords	CD3 epsilon;CD3e;CD3e antigen epsilon polypeptide (TiT3 complex);CD3E antigen epsilon polypeptide;CD3E antigen, epsilon subunit;CD3e molecule epsilon;CD3e molecule, epsilon (CD3 TCR complex);CD3e molecule, epsilon (CD3-TCR complex);CD3E_HUMAN;IMD18;T cell antigen receptor complex epsilon subunit of T3;T cell surface antigen T3/Leu 4 epsilon chain;T cell surface glycoprotein CD3 epsilon chain;T-cell surface antigen T3/Leu-4 epsilon chain;T-cell surface glycoprotein CD3 epsilon chain;T3E;TCRE antibody
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GENE INFORMATION

Entrez Gene ID	916
UniProt ID	P07766