

Product datasheet for TP527669

Cd3e (NM_007648) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse CD3 antigen, epsilon polypeptide (Cd3e), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR227669 protein sequence Red =Cloning site Green =Tags(s)
	MRWNTFWGILCLSLAVGTCQDDAENIEYKVSISGTSVELTCPLDSDENLKWEKNGQELPQKHDKHLVLQ DFSEVEDSGYYVCYTPASNKNTYLYLKARVCEYCVVDLTAVAIIVDICITLGLLMVIYYWSKNRKAK AKPVTRGTGAGSRPRGQNKERPPPVPNPDYEPKRGQRDLYSGLNQRAV
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	21.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_031674
Locus ID:	12501
UniProt ID:	P22646 , A6H6M1
RefSeq Size:	1436
Cytogenetics:	9 24.84 cM



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RefSeq ORF: 570

Synonyms: AI504783; CD3; CD3epsilon; T3e

Summary: Part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain. Upon TCR engagement, these motifs become phosphorylated by Src family protein tyrosine kinases LCK and FYN, resulting in the activation of downstream signaling pathways. In addition of this role of signal transduction in T-cell activation, CD3E plays an essential role in correct T-cell development (PubMed:19956738, PubMed:24899501). Participates also in internalization and cell surface down-regulation of TCR-CD3 complexes via endocytosis sequences present in CD3E cytosolic region.[UniProtKB/Swiss-Prot Function]