

## Datasheet for ABIN7317703 CD3D Protein (Fc Tag,DYKDDDDK Tag)



Overview	
Quantity:	100 µg
Target:	CD3D
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD3D protein is labelled with Fc Tag,DYKDDDDK Tag.
Product Details	
Purpose:	Recombinant Human CD3d/CD3 delta Protein (Fc&FLAG Tag)
Sequence:	Met 1-Ala105
Characteristics:	A DNA sequence encoding the human CD3D (Met1-Ala105) was fused with the C-terminal flag- tagged Fc region of human IgG1 at the C-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per $\mu$ g as determined by the LAL method.
Target Details	
Target:	CD3D
Alternative Name:	CD3d/CD3 delta (CD3D Products)

Background:	Background: T-cell surface glycoprotein CD3 delta chain, also known as CD3D, is a single-pass
	type I membrane protein. CD3D, together with CD3-gamma, CD3-epsilon and CD3-zeta, and the
	T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T cell receptor-CD3

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complex. The majority of T cell receptor (TCR) complexes in mice and humans consist of a			
heterodimer of polymorphic TCRalpha and beta chains along with invariant CD3gamma, delta,			
epsilon, and zeta chains. CD3 chains are present as CD3gammaepsilon, deltaepsilon, and			
zetazeta dimers in the receptor complex and play critical roles in the antigen receptor			
assembly, transport to the cell surface, and the receptor-mediated signal transduction. T cell			
receptor-CD3 complex plays an important role in coupling antigen recognition to several			
intracellular signal-transduction pathways. This complex is critical for T-cell development and			
function, and represents one of the most complex transmembrane receptors. The T cell			
receptor-CD3 complex is unique in having ten cytoplasmic immunoreceptor tyrosine-based			
activation motifs (ITAMs). CD3D contains 1 ITAM domain and has been shown to interact with			
CD8A. In the mouse, knockout of CD3delta allows some degree of T lymphocyte differentiation			
since mature CD4 and CD8 as well as TCRgammadelta T lymphocytes are observed in the			
periphery. In contrast, deleterious mutation of the CD3delta encoding gene in the human leads			
to a severe combined immunodeficiency characterised by the complete absence of mature $T$			
cell subpopulations including TCRalpha/beta and TCRgamma/delta. Defects in CD3D cause			
severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-			
cell-positive (T-/B+/NK+ SCID) which is a genetically and clinically heterogeneous group of rare			
congenital disorders characterized by impairment of both humoral and cell-mediated immunity,			
leukopenia, and low or absent antibody levels. In humans the absence of CD3 delta results in a			
complete arrest in thymocyte development at the stage of double negative to double positive			
transition and the development of gamma delta T-cell receptor-positive T cells is also			
impaired.Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy			
Synonym: CD3 delta;CD3-DELTA;IMD19;T3D			

Molecular Weight:	37.8 kDa
NCBI Accession:	NP_000723
Pathways:	TCR Signaling, CXCR4-mediated Signaling Events
Application Details	
Restrictions:	For Research Use only
Handling	
Handling Format:	Lyophilized
	Lyophilized Please refer to the printed manual for detailed information.

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Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.

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