

Datasheet for ABIN2180778

CD3 epsilon Protein (CD3E) (AA 23-126) (His tag)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	CD3 epsilon (CD3E)
Protein Characteristics:	AA 23-126
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD3 epsilon protein is labelled with His tag.

Product Details

Sequence:	AA 23-126
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 13.2 kDa. The protein migrates as 18-20 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>90 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CD3 epsilon (CD3E)
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Target Details

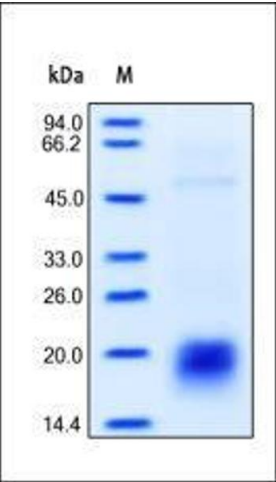
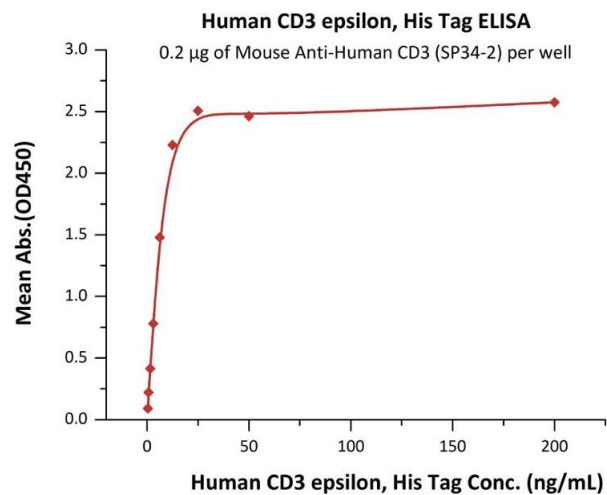
Alternative Name:	CD3 epsilon (CD3E Products)
Background:	CD3e molecule, epsilon is also known as CD3E, is a T-cell surface single-pass type I membrane glycoprotein. CD3E contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3E, together with CD3-gamma, CD3-delta and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. CD3E plays an essential role in T-cell development, and defects in CD3E gene cause severe immunodeficiency. CD3E gene has also been linked to a susceptibility to type I diabetes in women. CD3E has been shown to interact with TOP2B, CD3EAP and NCK2.
Molecular Weight:	12.6 kDa
NCBI Accession:	NP_000724
Pathways:	TCR Signaling , CXCR4-mediated Signaling Events , Ubiquitin Proteasome Pathway

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).



ELISA

Image 1. Immobilized Mouse A CD3 (SP34-2) at 2 µg/mL (100 µL/well) can bind Human CD3 epsilon, His Tag (ABIN2180779,ABIN2180778) with a linear range of 0.4-6.25 ng/mL (QC tested).

SDS-PAGE

Image 2.