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# CD3 epsilon Protein (CD3E) (His tag)



# **Images**



### Overview

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

### **Product Details**

Sequence:	Asp23-Asp126
Purity:	> 95% as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human CD3E, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve
	for Anti-CD3 Antibody, hFc Tag with the EC50 of 9.1ng/ml determined by ELISA. See testing
	image for detail.

# Target Details

Target:	CD3 epsilon (CD3E)
Alternative Name:	CD3E (CD3E Products)
Background:	CD3e, CD3E, T3E, FLJ18683, TCRE, CD3-epsilon, IMD18,CD3E, is a single-pass type I membrane
	protein.CD3 (cluster of differentiation 3) T cell co-receptor helps to activate both the cytotoxic T

## **Target Details**

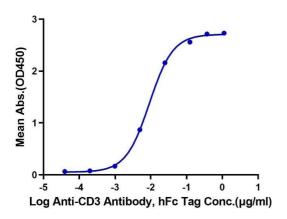
Expiry Date:

12 months

	cell (CD8 naive T cells) and also T helper cells (CD4 naive T cells). It consists of a protein complex and is composed of four distinct chains. In mammals, the complex contains a CD3γ chain, a CD3δ chain, and two CD3ε chains.
Molecular Weight:	12.6 kDa. Due to glycosylation, the protein migrates to 15 kDa based on Tris-Bis PAGE result.
UniProt:	P07766
Pathways:	TCR Signaling, CXCR4-mediated Signaling Events, Ubiquitin Proteasome Pathway
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 $\mu$ g/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from $0.22\mu m$ filtered solution in PBS ( pH $7.4$ ). Normally 5 % trehalose is added as protectant before lyophilization.
Storage:	4 °C,-80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

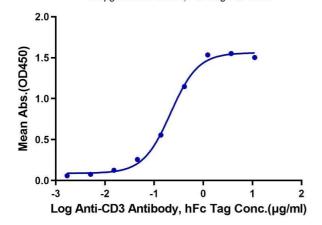
### Human CD3E, His Tag ELISA

0.1µg Human CD3E, His Tag Per Well



# MK R 140KD 115KD 80KD 70KD 50KD 40KD 30KD 25KD 15KD

### Human CD3E, His Tag ELISA 0.1µg Human CD3E, His Tag Per Well



### **ELISA**

**Image 1.** Immobilized Human CD3E, His Tag at  $1 \mu g/mL$  (100  $\mu L/well$ ) on the plate. Dose response curve for Anti-CD3 Antibody, hFc Tag with the EC50 of 9.1 ng/mL determined by ELISA.

### **SDS-PAGE**

Image 2. Human CD3E on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### **ELISA**

Image 3. Immobilized Human CD3E at  $1\,\mu g/mL$  (100  $\mu$  L/Well). Dose response curve for Anti-CD3 Antibody, hFc Tag with the EC50 of 0.2  $\mu g/mL$  determined by ELISA.