

Datasheet for ABIN7319783

## CD3 epsilon Protein (CD3E) (mFc Tag)



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### 2 Images

#### Overview

Quantity:	50 µg
Target:	CD3 epsilon (CD3E)
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD3 epsilon protein is labelled with mFc Tag.

#### Product Details

Purpose:	Recombinant Human CD3 epsilon/CD3E (C-mFc)
Sequence:	Gln22-Thr48
Characteristics:	Recombinant Human T-Cell Surface Glycoprotein CD3 Epsilon Chain is produced by our Mammalian expression system and the target gene encoding Gln22-Thr48 is expressed with a mFc tag at the C-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Human CD3E-mFc(Cat#C00E) at 10µg/ml (100 µl/well) can bind Human Anti-CD3(Cat#GMP-A018). The ED50 of Human CD3E-mFc(Cat#C00E) is 9.4 ng/ml.

#### Target Details

Target:	CD3 epsilon (CD3E)
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## Target Details

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Alternative Name: CD3 epsilon/CD3E ([CD3E Products](#))

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Background: Background: T-Cell Surface Glycoprotein CD3 ε Chain (CD3ε) is a single-pass type I membrane protein. CD3ε contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3ε is a polypeptide encoded by the CD3E gene on chromosome 11 in humans. The T cell receptor-CD3 complex (TCR/CD3 complex) is involved in T-cell development and 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). TCR/CD3 complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways.

Synonym: T-Cell Surface Glycoprotein CD3 Epsilon Chain, T-Cell Surface Antigen T3/Leu-4 Epsilon Chain, CD3e, CD3E, T3E

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Molecular Weight: 28.5 kDa

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UniProt: [P07766](#)

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Pathways: [TCR Signaling](#), [CXCR4-mediated Signaling Events](#), [Ubiquitin Proteasome Pathway](#)

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Reconstitution: Please refer to the printed manual for detailed information.

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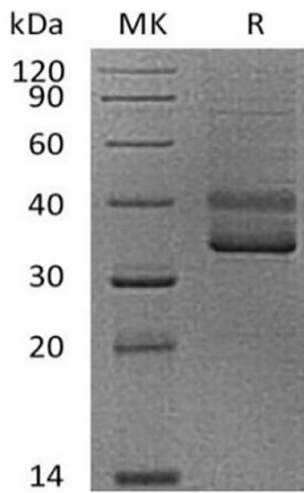
Buffer: Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

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Storage: 4 °C,-20 °C,-80 °C

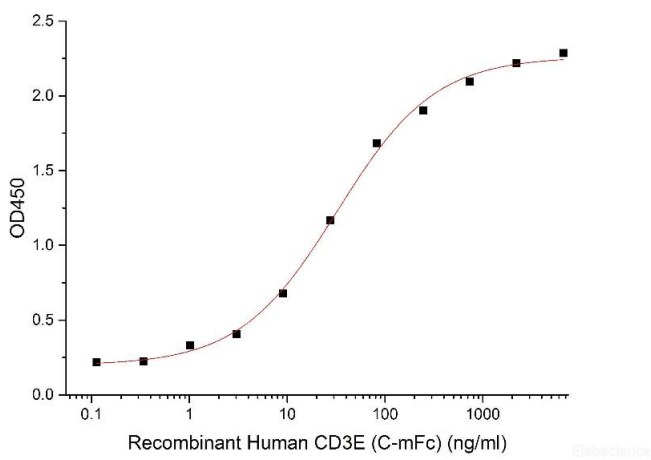
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Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



### Western Blotting

Image 1.



### ELISA

Image 2.