

## Product datasheet

# Recombinant human CD3 epsilon protein (Active) ab167755

[3 Images](#)

### Description

<b>Product name</b>	Recombinant human CD3 epsilon protein (Active)	
<b>Biological activity</b>	Immobilized Mouse Anti-Human CD3 at 2 µg/mL (100 µL/well) binds ab167755. Linear range: 0.2-2 ng/mL (QC tested).	
<b>Purity</b>	> 90 % SDS-PAGE. >90% as determined by SEC-MALS.	
<b>Endotoxin level</b>	< 1.000 Eu/µg	
<b>Expression system</b>	HEK 293 cells	
<b>Accession</b>	<b><u>P07766-1</u></b>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	DGNEEMGGIT QTPYKVSISG TTVILTCPQY PGSEILWQHN DKNIGGDEDD KNIGSDEDHL SLKEFSELEQ SGYYVCYPRG SKPEDANFYL YLRARVCENC MEMD	
<b>Predicted molecular weight</b>	17 kDa including tags	
<b>Molecular weight information</b>	As a result of glycosylation, the protein migrates as 20-21 kDa under reducing (R) condition, and 35-45 kDa under non-reducing (NR) condition (SDS-PAGE).	
<b>Amino acids</b>	23 to 126	
<b>Tags</b>	His tag C-Terminus	
<b>Additional sequence information</b>	As a result of glycosylation, the protein migrates as 20-21 kDa under reducing (R) condition, and 35-45 kDa under non-reducing (NR) condition (SDS-PAGE).	

### Specifications

Our **Abpromise guarantee** covers the use of **ab167755** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** Functional Studies

SDS-PAGE

**Form** Lyophilized

## Preparation and Storage

### Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA). Working aliquots stored with a carrier protein are stable for at least 3 months at -20°C to -80°C..

pH: 7.54

Constituent: 100% PBS

Lyophilized from 0.22 µm filtered solution.

5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%

This product is an active protein and may elicit a biological response in vivo, handle with caution.

### Reconstitution

Reconstitute with sterile deionized water to a concentration of 600 µg/ml.

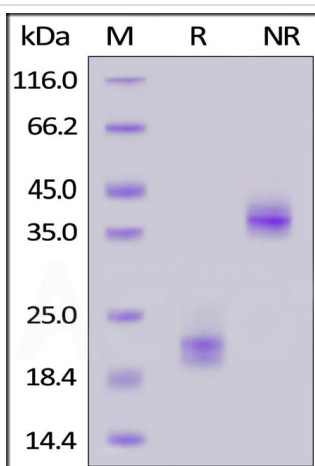
## General Info

**Function** The CD3 complex mediates signal transduction.

**Sequence similarities** Contains 1 Ig-like (immunoglobulin-like) domain.  
Contains 1 ITAM domain.

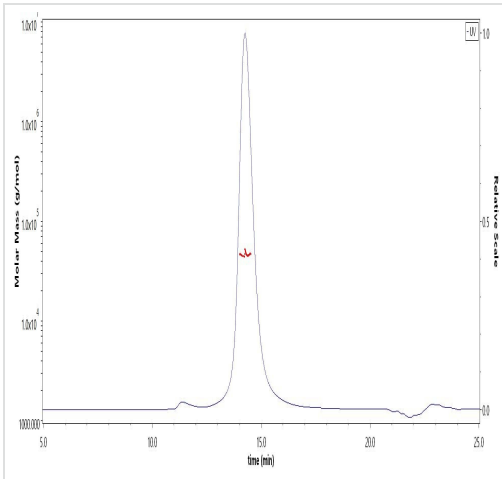
**Cellular localization** Membrane.

## Images



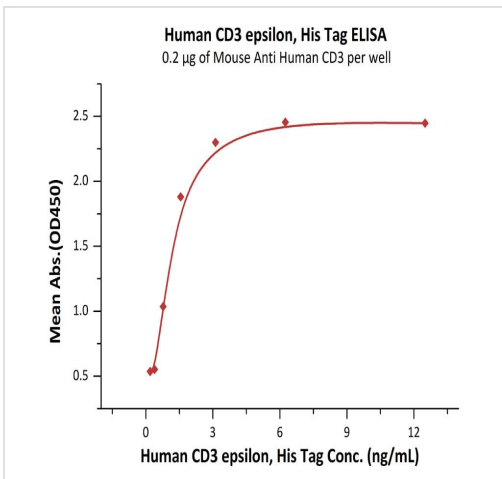
ab167755 on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

SDS-PAGE - Recombinant human CD3 epsilon protein (Active) (ab167755)



Size Exclusion Chromatography - Recombinant human CD3 epsilon protein (Active) (ab167755)

The purity of Human CD3 epsilon, His Tag (ab167755) is more than 90% and the molecular weight of this protein is around 40-50 kDa verified by SEC-MALS.



Functional Studies - Recombinant human CD3 epsilon protein (Active) (ab167755)

Immobilized Mouse Anti Human CD3 at 2 µg/mL (100 µL/well) can bind ab167755 with a linear range of 0.2-2 ng/mL (QC tested).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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