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# **CD46 Protein (CD46) (AA 35-343) (His tag)**

3 Images



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#### Overview

Quantity:	100 μg
Target:	CD46
Protein Characteristics:	AA 35-343
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD46 protein is labelled with His tag.

#### **Product Details**

Purpose:	Human CD46 Protein
Sequence:	Cys35-Asp343
Characteristics:	Recombinant Human CD46 Protein is expressed from HEK293 with His tag at the C-Terminus.lt contains Cys35-Asp343.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human CD46, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CD46 Antibody, hFc Tag with the EC50 of 25.3ng/ml determined by ELISA. See testing image for detail.

## **Target Details**

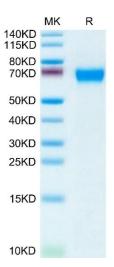
Target:	CD46
Alternative Name:	CD46 (CD46 Products)
Background:	CD46 was discovered in 1986 during a search for novel C3b-binding proteins. CD46 is expressed ubiquitously and functions as a co-factor in the factor I-mediated proteolytic cleavage of C3b and C4b. Its vital role in preventing complement deposition on host tissue is underpinned by the fact that deficiency of CD46 is a predisposing factor for numerous disease conditions arising from complement-mediated 'self-attack'.
Molecular Weight:	35.4 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result.
Pathways:	Regulation of Actin Filament Polymerization

# **Application Details**

Restrictions: For Research Use only

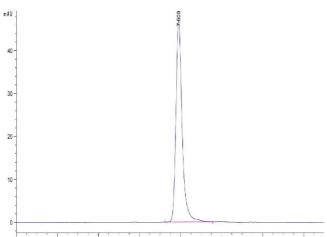
# Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from $0.22\mu m$ filtered solution in PBS ( pH $7.4$ ). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



#### **SDS-PAGE**

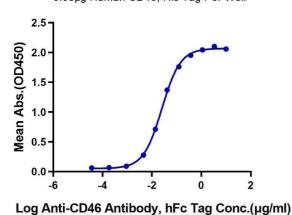
**Image 1.** Human CD46 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 %.



# Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Human CD46 is greater than 95% as determined by SEC-HPLC.

### Human CD46, His Tag ELISA 0.05µg Human CD46, His Tag Per Well



#### **ELISA**

**Image 3.** Immobilized Human CD46, His Tag at  $0.5\,\mu\text{g/mL}$  (100  $\mu\text{L/Well}$ ) on the plate. Dose response curve for Anti-CD46 Antibody, hFc Tag with the EC50 of 25.3 ng/mL determined by ELISA.