



### Synonym

CD36, SCARB3, BDPLT10, CHDS7, FAT, GP3B, GP4, GPIV, PASIV, Platelet Glycoprotein 4, glycoprotein IV, gpIV, glycoprotein IIIb, gpIIIb

### Source

Human CD36, His Tag (CD6-H5221) is expressed from human 293 cells (HEK293). It contains AA Gly 30 - Asn 439 (Accession # [NP\\_001001547.1](#)). Predicted N-terminus: Gly 30

### Molecular Characterization

CD36(Gly 30 - Asn 439)  
NP\_001001547.1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 48.5 kDa. The protein migrates as 66-80 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Endotoxin

Less than 1.0 EU per µg by the LAL method.

### Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

### Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

### Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

### Storage

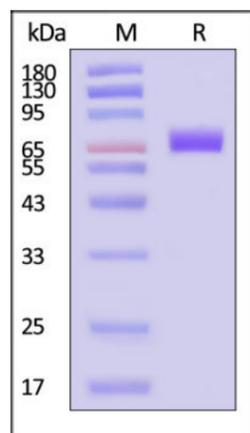
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

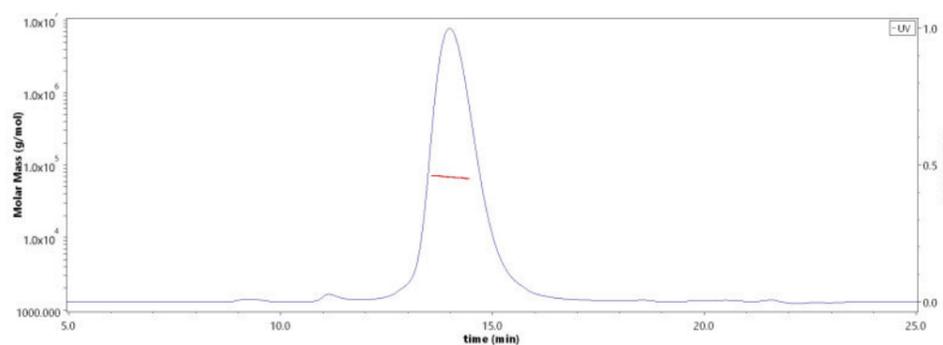
### SDS-PAGE



Human CD36, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

### Bioactivity-ELISA

### SEC-MALS

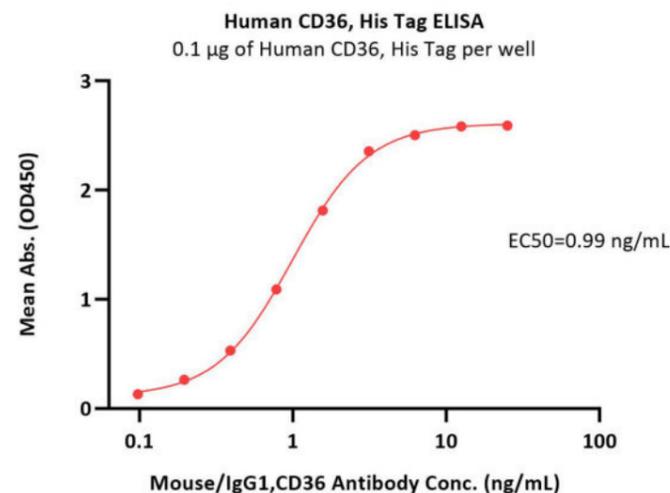
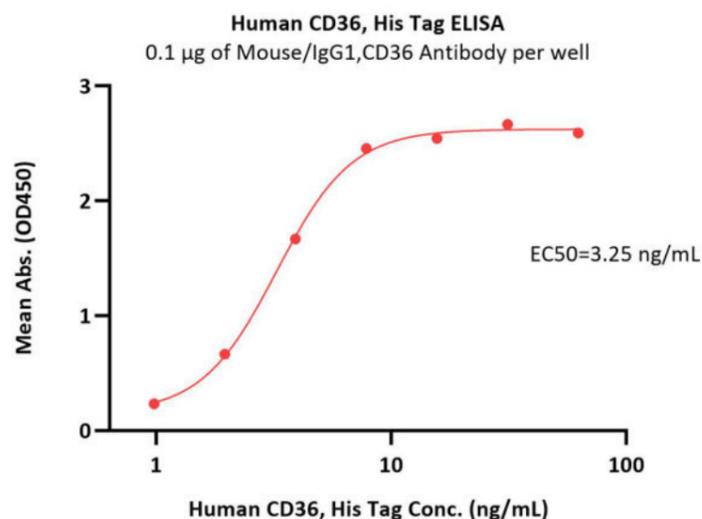


The purity of Human CD36, His Tag (Cat. No. CD6-H5221) is more than 90% and the molecular weight of this protein is around 58-78 kDa verified by SEC-MALS.

[Report](#)

Discounts, Gifts,  
and more!





Immobilized Mouse/IgG1,CD36 Antibody at 1 µg/mL (100 µL/well) can bind Human CD36, His Tag (Cat. No. CD6-H5221) with a linear range of 1-16 ng/mL (QC tested).

Immobilized Human CD36, His Tag (Cat. No. CD6-H5221) at 1 µg/mL (100 µL/well) can bind Mouse/IgG1,CD36 Antibody with a linear range of 0.1-6 ng/mL (Routinely tested).

## Background

CD36 (Cluster of Differentiation 36) is also known as platelet membrane glycoprotein IV (GPIV), fatty acid translocase (FAT), thrombospondin receptor, collagen receptor, and scavenger receptor class B, member 3 (SRB3), is a member of the class B scavenger receptor family of cell surface proteins. The human CD36 gene encodes a single chain 472 amino acid residue protein containing both an N- and a C-terminal cytoplasmic tail and an extracellular loop. CD36 is found on platelets, erythrocytes, monocytes, differentiated adipocytes, mammary epithelial cells, spleen cells and some skin microdermal endothelial cells. CD36 is a multiligand pattern recognition receptor that interacts with a large number of structurally dissimilar ligands, including long chain fatty acid (LCFA), advanced glycation end products (AGE), thrombospondin-1, oxidized low-density lipoproteins (oxLDLs), high density lipoprotein (HDL), phosphatidylserine, apoptotic cells, beta-amyloid fibrils (fAβ), collagens I and IV, and Plasmodium falciparum infected erythrocytes. CD36 is required for the anti-angiogenic effects of thrombospondin1 In the corneal neovascularization assay. On binding a ligand the protein and ligand are internalized. This internalization is independent of macropinocytosis and occurs by an actin dependent mechanism requiring the activation Src-family kinases, JNK and Rho-family GTPases. CD36 ligands have also been shown to promote sterile inflammation through assembly of a Toll-like receptor 4 and 6 heterodimer.

## Clinical and Translational Updates

Discounts, Gifts,  
and more!

