

HUMAN CD36 PROTEIN, HFC TAG

Cat.#: 11240

Product Name: Human CD36 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: BDPLT10;CHDS7;FAT;GP3B;GP4;GPIV;PASIV;SCARB3

Target: CD36

UNIPROT ID: P16671

Description: Recombinant Human CD36 Protein with C-terminal human Fc tag

Background: The protein encoded by this gene is the fourth major glycoprotein of the platelet surface and serves as a receptor for thrombospondin in platelets and various cell lines. Since thrombospondins are widely distributed proteins involved in a variety of adhesive processes, this protein may have important functions as a cell adhesion molecule. It binds to collagen, thrombospondin, anionic phospholipids and oxidized LDL. It directly mediates cytoadherence of *Plasmodium falciparum* parasitized erythrocytes and it binds long chain fatty acids and may function in the transport and/or as a regulator of fatty acid transport. Mutations in this gene cause platelet glycoprotein deficiency. Multiple alternatively spliced transcript variants have been found for this gene.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 72.8 kDa after removal of the signal peptide. The apparent molecular mass of CD36-hFc is approximately 100-130 kDa due to glycosylation.

Molecular Characterization: CD36(Gly30-Asn439) hFc(Glu99-Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

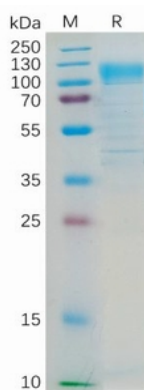


Figure 1. Human CD36 Protein, hFc Tag on SDS-PAGE under reducing condition.

Human CD36,hFc Tagged protein ELISA

0.2 µg of Human CD36, hFc tagged protein per well

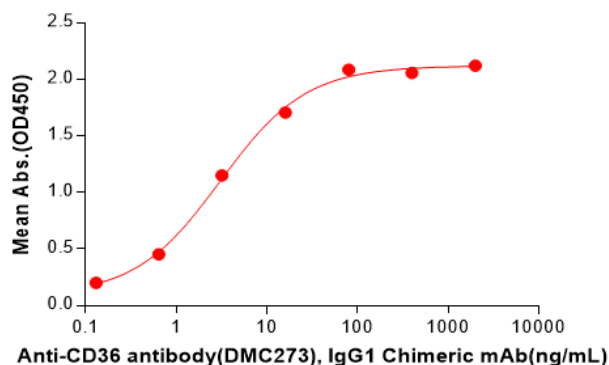


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CD36 Protein, hFc Tag(11240) can bind Anti-CD36 antibody(DMC273), IgG1 Chimeric mAb in a linear range of 0.64-16 ng/mL.