

## PRODUCT INFORMATION

<b>Tag</b>	C-Flag Tag
<b>Expression Host</b>	HEK293
<b>Target</b>	CD36
<b>Synonyms</b>	BDPLT10; CHDS7; FAT; GP3B; GP4; GPIV; PASIV; SCARB3
<b>Description</b>	Human CD36 full length protein-synthetic nanodisc
<b>Uniprot ID</b>	P16671
<b>Protein Families</b>	Druggable Genome, Transmembrane
<b>Protein Pathways</b>	Adipocytokine signaling pathway, ECM-receptor interaction, Hematopoietic cell lineage, PPAR signaling pathway
<b>Molecular Weight</b>	The human full length CD36 protein has a MW of 53.1 kDa
<b>Delivery</b>	In Stock
<b>Formulation &amp; Reconstitution</b>	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. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.
<b>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<b>Storage&amp;Shipping</b>	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.
<b>Background</b>	The protein 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.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



### ELISA assay to evaluate CD36-Nanodisc 0.2 $\mu$ g Human CD36-Nanodisc per well

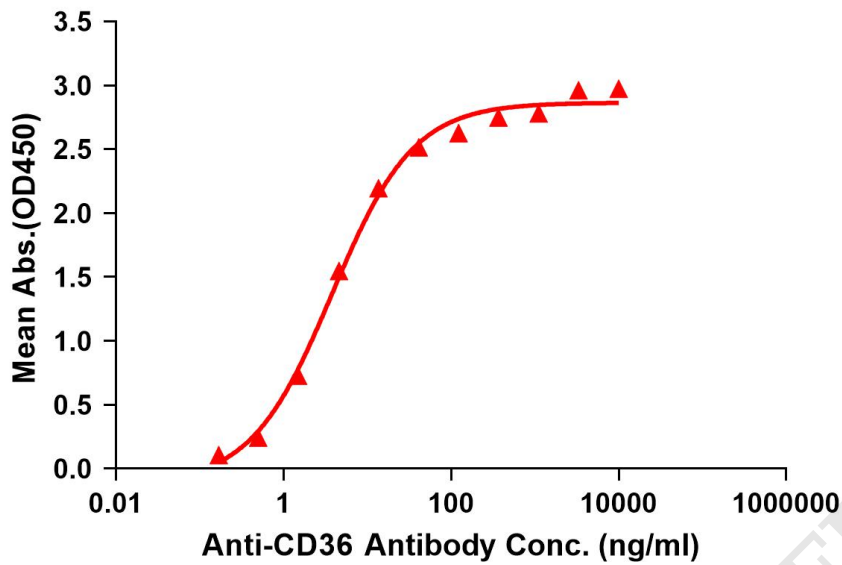


Figure 1. Elisa plates were pre-coated with Flag Tag CD36-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-CD36 monoclonal antibody (DMC100273) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CD36 monoclonal antibody binding with CD36-Nanodisc is 3.826ng/ml.



Figure 2. Human CD36-Nanodisc, Flag Tag on SDS-PAGE

