Recombinant Mouse Cd36 Protein, Fc Tagged

Cat. No. Cd36-11247M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse CD36 Protein, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Gly 30-Lys 439 (Accession # Q08857-1). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Gly 30
Species	Mouse
Source	HEK293
ProteinLength	30-439 aa
Description	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

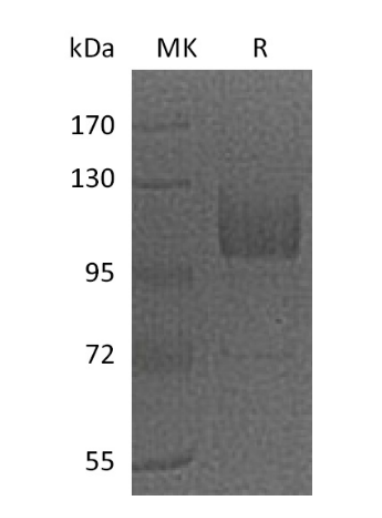
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	neovascularization assay. On binding a ligand the protein and ligand are internalized. This internalization is independent of macropinocytosis and occurs by an actin dependent mechanism requiring the activation Src-family kinases, JNK and Rho-family GTPases. CD36 ligands have also been shown to promote sterile inflammation through assembly of a Toll-like receptor 4 and 6 heterodimer.
Form	Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 72.8 kDa. The protein migrates as 95-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Cd36 CD36 antigen [Mus musculus (house mouse)]
Official Symbol	Cd36

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Synonyms	CD36; CD36 antigen; platelet glycoprotein 4; PAS-4; GPIIIB; PAS IV; glycoprotein IIIb; fatty acid translocase; platelet glycoprotein IV; FAT; GPIV; Scarb3;
Gene ID	12491
mRNA Refseq	NM_001159555
Protein Refseq	NP_001153027
UniProt ID	Q08857
SDS-PAGE	

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