

Active Recombinant Mouse Cd36 protein, His-tagged

Cat. No. Cd36-3323M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Cd36(Gly 30-Lys 439) fused with a polyhistidine tag at the C-terminus and a signal peptide at the N-terminus was expressed in HEK293.

Species Mouse

Source HEK293

ProteinLength Gly 30-Lys 439

Description

The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. Cluster of differentiation 36 (CD36), also known as FAT, SCARB3, GP88, glycoprotein IV (gpIV) and glycoprotein IIIb (gpIIIb), is a member of the CD system as well as the class B scavenger receptor family of cell surface proteins. CD36 can be found on the surface of many cell types in vertebrate animals and it consists of 472 amino acids and is extensively glycosylated. It is an integral membrane protein primarily serving as receptors for thrombospondin and collagen and by the erythrocytes infected with the human malaria parasite. The role of CD36 as a cell surface receptor has been extended to that of a signal transduction

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	molecule.
Predicted N Terminal	Gly 30
Form	Lyophilized from sterile PBS, pH 7.41. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.2. Please contact us for any concerns or special requirements.
Bio-activity	1. Measured by its binding ability in a functional ELISA.2. Immobilized human RSPO1-His at 10 µg/mL (100 µl/well) can bind biotinylated mouse CD36-His, The EC50 of can bind biotinylated mouse CD36-His is 0.1-0.4 µg/mL.
Molecular Mass	The secreted recombinant mouse CD36 consists of 421 amino acids and has a calculated molecular mass of 47.8 kDa. As a result of glycosylation, the apparent molecular mass of rmCD36 is approximately 80-90 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 92 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

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Shipping

In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name [Cd36 CD36 antigen \[Mus musculus \]](#)

Official Symbol [Cd36](#)

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_001159558](#)

Protein Refseq [NP_001153030](#)

MIM

UniProt ID [Q08857](#)

Chromosome Location 5 A3; 5 8.11 cM

Pathway

Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem;

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Function

Gram-negative bacterial cell surface binding; Gram-positive bacterial cell surface binding; high-density lipoprotein particle binding; lipid binding; lipid binding; lipoprotein particle binding; lipoteichoic acid receptor activity; low-density lipoprotein particle binding; low-density lipoprotein particle binding; low-density lipoprotein receptor activity; low-density lipoprotein receptor activity; receptor activity; thrombospondin receptor activity; transforming growth factor beta binding;

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