CD36 Antibody – Rabbit Monoclonal

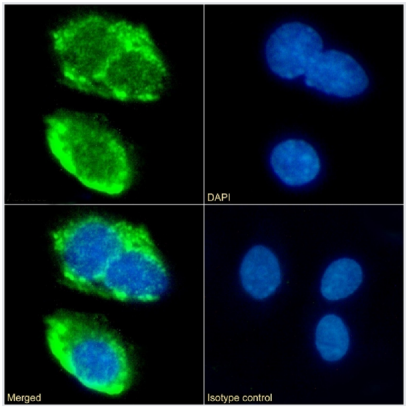
PRODUCT OVERVIEW

Product Name	CD36, Monoclonal Antibody
Full Product Name	Anti-CD36 [185-1G2 (B467)]
Product Gene Name	anti-CD36 antibody
Product Synonym Names	SRB1; Scavenger receptor class B member 1; CD36 and LIMPII analogous 1; CLA-1; CD36 antigen-like 1; Collagen type I receptor, thrombospondin receptor-like 1; SR-BI
Clonality	Monoclonal
Isotype	Rabbit IgG, kappa
Clone Number	185-1G2 (B467)
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% Proclin 300.
Purity/Purification	Purified antibody. Protein A affinity purified
Concentration	1mg/ml (lot specific)
Specificity	This antibody is specific against CD36. The antibody recognizes an epitope between amino acids 155 - 183. CD36 is a receptor for different ligands such as phospholipids, cholesterol ester, lipoproteins, phosphatidylserine and apoptotic cells. It acts as a receptor for hepatitis C virus in hepatocytes and appears to facilitate its cell entry as well as mediates uptake of M. fortuitum, E. coli and S. aureus.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.
Molecular Weight	552
OMIM	gene 610762
3D Structure	ModBase 3D Structure for Q8WTV0
Animal-free Manufacturing Platform	The recombinant antibody is manufactured using a recombinant, mammalian HEK293-based expression platform. The manufacturing platform is animal-free and animal component-free.
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgM format, for improved compatibility with existing reagents, assays and techniques.
PMID	11238109
Product Categories/Family for anti-CD36 antibody	immunology; cancer; haematology; hematology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD36 antibody	Blocking (BL), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP), Flow Cytometry (FC/FACS)
Application Notes for anti-CD36 antibody	This antibody is recommended for the detection and analysis of CD36 via various methods. For instance, it was used to stain ovarian cancer tissue samples via immunohistochemistry, demonstrating that CD36 was expressed in the cytoplasm of cancer cells while stromal cells were negative (Têtu et al., 2008). Furthermore, 185-1G2 antibody was shown to precipitate CD36 from a platelate lysate sample (Miao et al., 2001). Finally, this antibody has also blocking properties against CD36 and has been widely used to inhibit this receptor (Short et al., 2005).

Related Product Information for anti-CD36 antibody	Recombinant monoclonal antibody to CD36. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma 185-1G2 (B467). Nordic MUBio This antibody was raised by immunizing mice with stimulated human leukocytes.
Product References and Citations for anti-CD36 antibody	Miao et al. CD36 associates with CD9 and integrins on human blood platelets. Blood. 2001 Mar 15;97(6):1689-96. Note on publication: The article describes the use of the 185-1G2 antibody in immunoprecipitations.
Other Notes	Small volumes of anti-CD36 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD36 purchase	MBS488729 is an antibody targeting CD36. Also known as Anti-CD36 [185-1G2 (B467)]. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CD36 antibody
Western Blot using anti-CD36 antibody 185-1G2 (B467) (MBS488728) Human peripheral blood monocyte cell lysate (35ug protein in RIPA buffer) was resolved on a SDS PAGE gel and blots were probed with the chimeric rabbit version of 185-1G2 (B467) () at 0.03ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.



Immunofluorescence (IF) of anti-CD36 antibody
Immunofluorescence staining of fixed HepG2 cells with anti-CD36 antibody 185-1G2 (B467) (MBS488728) Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells on Shi-fix coverslips stained with the chimeric rabbit IgG version of 185-1G2 (B467) () at 10ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom , DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody (MBS488149) followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD36. It may not necessarily be applicable to this product.

NCBI GI #	37999904
NCBI GeneID	949
NCBI Accession #	Q8WTV0.1
UniProt Primary Accession #	Q8WTV0
UniProt Secondary Accession #	Q14016; Q52LZ5; Q6KFX4; F8W8N0
UniProt Related Accession #	Q8WTV0
NCBI Official Full Name	Scavenger receptor class B member 1
NCBI Official Synonym Full Names	scavenger receptor class B, member 1
NCBI Official Symbol	SCARB1
NCBI Official Synonym Symbols	CLA1; SRB1; CLA-1; SR-BI; CD36L1; HDLQTL6
UniProt Protein Name	Scavenger receptor class B member 1
UniProt Synonym Protein Names	CD36 and LIMPII analogous 1; CLA-1; CD36 antigen-like 1; Collagen type I receptor, thrombospondin receptor-like 1; SR-BI; CD_antigen: CD36
Protein Family	Platelet glycoprotein

UniProt Gene Name	SCARB1
UniProt Synonym Gene Names	CD36L1; CLA1; SRB1; CLA-1
UniProt Entry Name	SCRB1_HUMAN
NCBI Protein Information	scavenger receptor class B member 1; CD36 and LIMPII analogous 1; scavenger receptor class B type III; CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 1
NCBI Summary for CD36	The protein encoded by this gene is a plasma membrane receptor for high density lipoprotein cholesterol (HDL). The encoded protein mediates cholesterol transfer to and from HDL. In addition, this protein is a receptor for hepatitis C virus glycoprotein E2. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2011]
UniProt Comments for CD36	SCARB1: Receptor for different ligands such as phospholipids, cholesterol ester, lipoproteins, phosphatidylserine and apoptotic cells. Probable receptor for HDL, located in particular region of the plasma membrane, called caveolae. Facilitates the flux of free and esterified cholesterol between the cell surface and extracellular donors and acceptors, such as HDL and to a lesser extent, apoB-containing lipoproteins and modified lipoproteins. Probably involved in the phagocytosis of apoptotic cells, via its phosphatidylserine binding activity. Receptor for hepatitis C virus glycoprotein E2. Binding between SCARB1 and E2 was found to be independent of the genotype of the viral isolate. Plays an important role in the uptake of HDL cholesteryl ester. Belongs to the CD36 family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, misc.; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 12q24.31 Cellular Component: cell surface; lysosomal membrane; microvillus membrane; integral to plasma membrane; plasma membrane; caveola Molecular Function: apolipoprotein A-I binding; protein binding; protein homodimerization activity; lipopolysaccharide binding; transporter activity; phosphatidylserine binding; low-density lipoprotein binding; lipopolysaccharide receptor activity; apolipoprotein binding; high-density lipoprotein binding; phosphatidylinositol binding Biological Process: receptor-mediated endocytosis; wound healing; blood vessel endothelial cell migration; viral reproduction; positive regulation of nitric-oxide synthase activity; lipoprotein metabolic process; cholesterol efflux; androgen biosynthetic process; regulation of phagocytosis; recognition of apoptotic cell; lipopolysaccharide transport; cholesterol homeostasis; reverse cholesterol transport; detection of lipopolysaccharide; endothelial cell proliferation; lipopolysaccharide-mediated signaling pathway; adhesion to host; phospholipid transport; cholesterol catabolic process; cell adhesion Disease: High Density Lipoprotein Cholesterol Level Quantitative Trait Locus 6
Research Articles on CD36	**1.** Intestinal scavenger receptors, including SR-BI, participate in the absorption of dietary phylloquinone.
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