SCARB1 Human Protein

PRODUCT OVERVIEW

Product Name	SCARB1, Protein
Full Product Name	Human SCARB1-Strep full length protein-synthetic nanodisc
Product Gene Name	SCARB1 protein
Product Synonym Names	CD36L1; CLA-1; CLA1; HDLQTL6; SR-BI; SRB1
Host	HEK293
Form/Format	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 pH lower
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Molecular Weight	552
OMIM	gene 610762
3D Structure	ModBase 3D Structure for Q8WTV0
Tag	C-DYKDDDDK&Strep
Product Categories/Family for SCARB1 protein	Full Length Transmembrane Proteins; Druggable Genome; Transmembrane
Related Product Information for SCARB1 protein	The protein 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. Several transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of SCARB1 protein 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 SCARB1 purchase	MBS1883274 is a protein targeting SCARB1. Also known as Human SCARB1-Strep full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SCARB1. 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	Scavenger receptor
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 SCARB1	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 SCARB1	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 SCARB1	**1.** Intestinal scavenger receptors, including SR-BI, participate in the absorption of dietary phylloquinone.
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