

Recombinant Human SCARB1 protein, Fc-tagged

Cat. No. SCARB1-509H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SCARB1 fused with Fc fragment of human IgG1 at the C-terminus was expressed in HEK293.
Species	Human
Source	HEK293
Description	Scavenger receptor class B member 1 (SRB1) is also known as SR-BI, CD36 and LIMPII analogous 1 (CD36L1), CLA-1, is a member of the scavenger receptor family or CD36 family. CD36L1 is an integral membrane protein found in numerous cell types/tissues, including the liver and adrenal. SRB1 is receptor for different ligands such as phospholipids, cholesterol ester, lipoproteins, phosphatidylserine and apoptotic cells. CLA-1 facilitates the flux of free and esterified cholesterol between the cell surface and extracellular donors and acceptors, such as high-density lipoprotein (HDL) and to a lesser extent, apoB-containing lipoproteins and modified lipoproteins. SCARB1 is, along with CD81, the receptor for the entry of the Hepatitis C virus glycoprotein E2 in liver cells, and binding between SCARB1 and E2 was found to be independent of the genotype of the viral isolate. SRB1 plays an important role in the uptake of HDL cholesteryl ester.
Predicted N Terminal	Pro 33
Form	Lyophilized from 0.22 µm filtered solution in 50 mM tris, 100 mM glycine, pH7.5. Normally Mannitol or Trehalose are added as protectants before lyophilization.

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Molecular Mass	has a calculated MW of 72.6 kDa. As a result of glycosylation, DTT-reduced Protein migrates as 110-115 kDa and non-reduced protein migrates as 220-230 kDa.
Endotoxin	Less than 1.0 EU per µg of the rh SCARB1 /SR-BI Fc Chimera by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4 centigrade); After reconstitution under sterile conditions for 3 months (-70 centigrade).

GENE INFORMATION

Gene Name	SCARB1 scavenger receptor class B, member 1 [Homo sapiens]
Official Symbol	SCARB1
Synonyms	SCARB1; scavenger receptor class B, member 1; CD36 antigen (collagen type I receptor, thrombospondin receptor) like 1 , CD36L1; scavenger receptor class B member 1; CLA 1; CLA1; SR BI; SRB1; CD36 and LIMPII analogous 1; scavenger receptor class B type III; CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 1; CLA-1; SR-BI; CD36L1; HDLQTL6; MGC138242;
Gene ID	949
mRNA Refseq	NM_005505
Protein Refseq	NP_005496
MIM	601040

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UniProt ID	Q8WTV0
Chromosome Location	12q24.32
Pathway	Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem; Folate Metabolism, organism-specific biosystem; HDL-mediated lipid transport, organism-specific biosystem; Hepatitis C, organism-specific biosystem;
Function	1-phosphatidylinositol binding; apolipoprotein A-I binding; apolipoprotein binding; high-density lipoprotein particle binding; high-density lipoprotein particle receptor activity; lipopolysaccharide binding; lipopolysaccharide receptor activity; low-density lipoprotein particle binding; phosphatidylserine binding; protein homodimerization activity; receptor activity; transporter activity;