

SR-BI/SCARB1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76087
Synonyms:	Scavenger receptor class B member 1; SRB1; SR-BI; CLA-1; CD36; CD36L1
Species:	Mouse
Source:	HEK293
Accession:	Q61009/NP_058021.1 (P33-V440)
Gene ID:	20778
Molecular Weight:	70-90 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SR-BI/SCARB1 functions as a versatile receptor with binding capabilities for various ligands, including phospholipids, cholesterol ester, lipoproteins, phosphatidylserine, and apoptotic cells. Both isoform 1 and isoform 2 serve as receptors for high-density lipoprotein (HDL), mediating the selective uptake of cholesteryl ether and facilitating HDL-dependent cholesterol efflux. Additionally, SR-BI/SCARB1 plays a role in the transport of free and esterified cholesterol between the cell surface and apolipoprotein B (apoB)-containing lipoproteins, as well as modified lipoproteins, albeit less efficiently than HDL. The receptor may also participate in the phagocytosis of apoptotic cells through its phosphatidylserine binding activity. Notably, the C-terminal region of SR-BI/SCARB1 interacts with PDZK1, highlighting its potential involvement in complex cellular processes and signaling pathways.
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Caution: Product has not been fully validated for medical applications. For research use only.

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