

Anti-SCARB1 Picoband Antibody

Catalog # ABO12190

Product Information

Application	WB
Primary Accession	Q61009
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Scavenger receptor class B member 1 (SCARB1) detection. Tested with WB in Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	20778
Other Names	Scavenger receptor class B member 1, SRB1, SR-BI, Scarb1, Srb1
Calculated MW	56754
Application Details	Western blot, 0.1-0.5 µg/ml, Mouse, Rat
Subcellular Localization	Cell membrane ; Multi-pass membrane protein . Membrane, caveola ; Multi-pass membrane protein . Predominantly localized to cholesterol and sphingomyelin-enriched domains within the plasma membrane, called caveolae. .
Tissue Specificity	Expressed primarily in liver and non-placental steroidogenic tissues.
Source	Eukaryota
Protein Name	Scavenger receptor class B member 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse SCARB1 (478-509aa KKGSQDKEAIQAYSESLMSPAAGT ₄₉₈ VLQEAKL), different from the related rat sequence by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also

be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	Scarb1
Synonyms	Srb1
Function	Receptor for different ligands such as phospholipids, cholesterol ester, lipoproteins, phosphatidylserine and apoptotic cells (By similarity). Both isoform 1 and isoform 2 act as receptors for HDL, mediating selective uptake of cholesteryl ether and HDL-dependent cholesterol efflux (PubMed: 9254074 , PubMed: 9614139). Also facilitates the flux of free and esterified cholesterol between the cell surface and apoB-containing lipoproteins and modified lipoproteins, although less efficiently than HDL. May be involved in the phagocytosis of apoptotic cells, via its phosphatidylserine binding activity (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein Membrane, caveola; Multi-pass membrane protein. Note=Predominantly localized to cholesterol and sphingomyelin-enriched domains within the plasma membrane, called caveolae. [Isoform 2]: Cell membrane. Membrane, caveola
Tissue Location	Expressed primarily in liver, ovary and adrenal gland, and, at lower levels in other non-placental steroidogenic tissues, including adipose tissue, mammary gland and testis (at protein level) (PubMed:8560269, PubMed:9254074, PubMed:9614139). Isoform 2 is expressed at lower levels than isoform 1 in liver, testis and adrenal gland (PubMed:9614139). At the mRNA, but not at the protein level, isoform 2 is the predominant isoform in testis (80%) (PubMed:9254074)

Background

Scavenger receptor class B member 1 (SRB1), also known as SR-BI, is a protein that in humans is encoded by the SCARB1 gene. SR-BI functions as a receptor for high-density lipoprotein. Scavenger receptor class B, type I (SR-BI) is an integral membrane protein found in numerous cell types/tissues, including the liver and adrenal. It is best known for its role in facilitating the uptake of cholesteryl esters from high-density lipoproteins in the liver. This process drives the movement of cholesterol from peripheral tissues towards the liver for excretion. This movement of cholesterol is known as reverse cholesterol transport and is a protective mechanism against the development of atherosclerosis, which is the principal cause of heart disease and stroke. SR-BI has also been identified in the livers of non-mammalian species (turtle, goldfish, shark, chicken, frog, and skate), suggesting it emerged early in vertebrate evolutionary history. The turtle also seems to upregulate SB-RI during egg development, indicating that cholesterol efflux may be at peak levels during developmental stages.

Images

Anti-SCARB1 Picoband antibody, ABO12190, Western blotting
All lanes: Anti SCARB1 (ABO12190) at 0.5ug/ml
Lane 1: Rat Testis Tissue Lysate at 50ug
Lane 2: Mouse Testis Tissue Lysate at 50ug
Predicted bind size: 57KD
Observed bind size: 57KD



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