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# SCARB1/Scavenger Receptor BI Rabbit pAb

SCARB1/Scavenger Receptor BI Rabbit pAb
Catalog # AP94272

## Product Information

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| **Application** | WB |
| **Primary Accession** | Q61009 |
| **Reactivity** | Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 56754 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from mouse SCARB1/Scavenger Receptor BI |
| **Epitope Specificity** | 411-509/509 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SUBCELLULAR 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. |
| **SIMILARITY** | Belongs to the CD36 family. |
| **SUBUNIT** | Plays a critical role in HCV attachment and/or cell entry by interacting with HCV E1/E2 glycoproteins heterodimer. The C-terminal region binds to PDZK1. |
| **Post-translational modifications** | N-glycosylated. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | High density lipoproteins (HDLs) play a critical role in cholesterol metabolism and their plasma concentrations are inversely correlated with risk for atherosclerosis. The SR-BI (Scavenger Receptor BI) protein binds HDLs and mediates selective uptake of HDL cholesteryl ester. SR-BI binds HDL with high affinity, is expressed primarily in liver and nonplacental steroidgenic tissues, and mediates selective cholesterol uptake by a distinct mechanism. In mice, it seems that SR-BI plays a key role in determining the levels of plasma lipoprotein cholesterol and the accumulation of cholesterol stores in the adrenal gland. Scavenging Receptor SR-BI plays a critical role in HCV attachment and/or cell entry by interacting with HCV E1/E2 glycoproteins heterodimer. |

## Additional Information

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| **Gene ID** | 20778 |
| **Other Names** | Scavenger receptor class B member 1, SRB1, SR-BI, Scarb1, Srb1 |

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| **Target/Specificity** | Widely expressed. The six cysteines of the extracellular domain are all involved in intramolecular disulfide bonds. |
| **Dilution** | WB=1:500-2000 |
| **Format** | 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| **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

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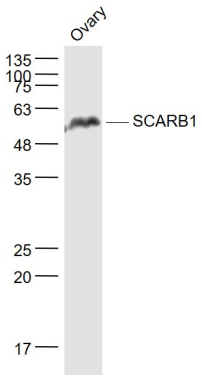
## Images

Sample: Ovary (Mouse) Lysate at 40 ug Primary: Anti-SCARB1 (AP94272) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 61 kD Observed band size: 57 kD

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