

Product datasheet for **TA336645**

SCARB1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	Block/Neutralize, FC, ICC/IF, IHC, IP, WB
Recommended Dilution:	Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen (Negative): 5 ug/ml, Knockout Validated, Flow Cytometry: 1:400, Block/Neutralize, Immunohistochemistry: 1:10-1:500, Immunocytochemistry/ Immunofluorescence: 1:50-1:1000, Immunoprecipitation, Western Blot: 1:1000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A peptide from the extracellular domain (residues 230-380) of Scavenger Receptor-BI/II that was expressed as two tandem copies in bacteria using the pET system.
Formulation:	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Whole antisera
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	82 kDa
Gene Name:	scavenger receptor class B member 1
Database Link:	NP_005496 Entrez Gene 20778 Mouse Entrez Gene 25073 Rat Entrez Gene 949 Human Q8WTV0



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Background:

SR-BI (scavenger receptor class BI, SCARB1) is a member of CD36 receptor family and act as a major receptor for HDL for facilitating selective lipid uptake from lipoproteins in several tissues. SR-BI gene gives rise to at least two mRNA splice variants (SR-BI and SR-BII), and interestingly, SR-BII variant is the main isoform in terms of mRNA levels in certain tissues e.g. SR-BII mRNA is 48-fold higher than SR-BI in brain cells; and protein levels reaching 10-15% of SR-BI in the liver. Similar differential SR-BII protein expression levels have also been detected in considerable amounts in other tissues, such as testes, retinal pigment epithelial cells, and spleen. SR-BII isoform differs from SR-BI only in its entirely different, yet highly conserved, cytoplasmic C-terminus which has been proposed to contains a signal responsible for marked alterations in cellular distribution as well as cellular trafficking of SR-BII compared with SR-BI. In contrast to SR-BI, SR-BII mediates the rapid uptake of significant amounts of HDL into endosomal recycling compartment by a pathway which is different from selective lipid uptake at the cell surface (mediated by SR-BI). Because SR-BII influence cellular cholesterol trafficking/homeostasis in a manner distinct from SR-BI, the relative expression as well as functional activities of these two isoforms create a potential means of regulating selective lipid transfer between HDL and cells.

Synonyms:

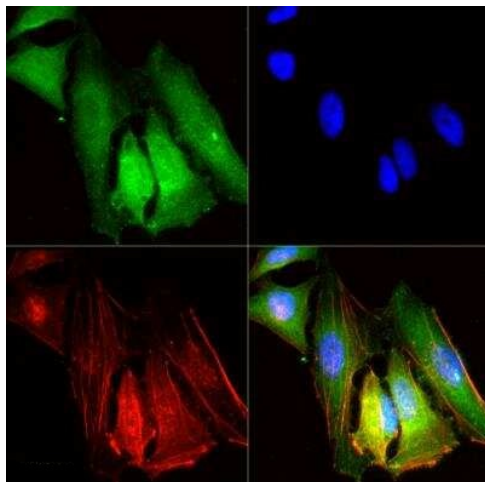
CD36L1; CLA-1; CLA1; HDLQTL6; SR-BI; SRB1

Note:

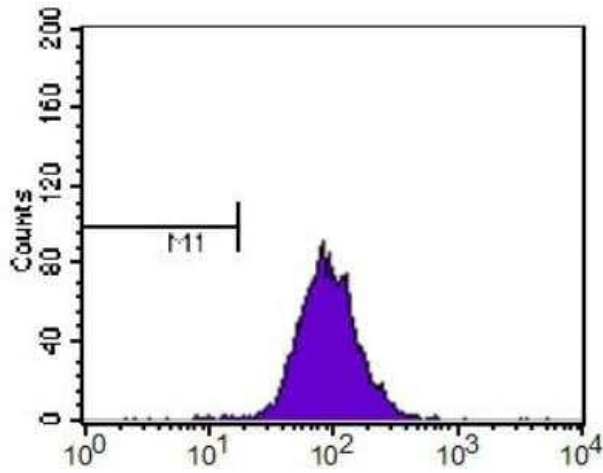
This SR-BI/SR-BII antibody is useful for Flow Cytometry (PMID: 22097902), functional studies (customer feedback), Immunocytochemistry, Western blot and Immunohistochemistry. In Western blot a band is observed at ~ 82 kDa in tissues that express SR-BI and/or SR-BII such as liver, ovary, adrenal glands, and to as lesser extent testes, heart and mammary glands.

Protein Families:

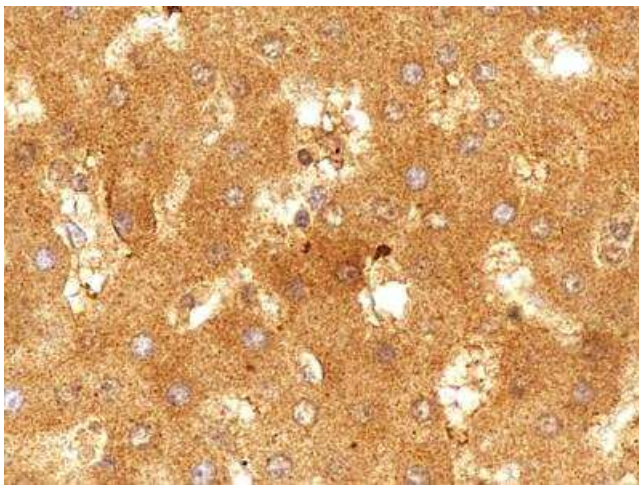
Druggable Genome, Transmembrane

Product images:

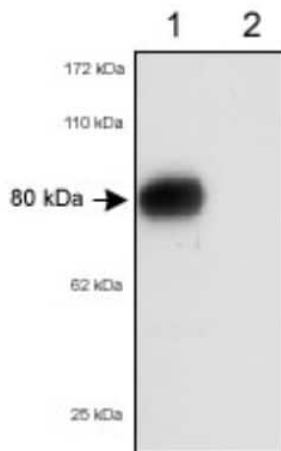
Immunocytochemistry/Immunofluorescence: SR-BI/SR-BII Antibody TA336645 - SR-BI/SR-BII antibody was tested in HeLa cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



Flow Cytometry: SR-BI/SR-BII Antibody TA336645 - SR-BI/SR-BII antibody was tested at 1:400 in NIH-3T3 cells using an Alexa Fluor 488 secondary (shown in purple). M1 is defined by unstained cells.



Immunohistochemistry-Paraffin: SR-BI/SR-BII Antibody TA336645 - IHC analysis of formalin-fixed paraffin-embedded tissue section of normal human liver using 5 ug/ml concentration of SR-BI/SR-BII antibody. Specific and expected granular membrane-cytoplasmic staining was observed in the hepatocytes. [40X Magnification]



Western Blot: SR-BI/SR-BII Antibody TA336645 - Detection of RED-1 in 80 ug of total mouse liver lysates. Lane 1: wild-type mice, Lane 2: SR-BI deficient mice.