

anti-Mouse, Rat SCARB1 Polyclonal Antibody | anti-SCARB1 antibody

Anti-SCARB1 Antibody

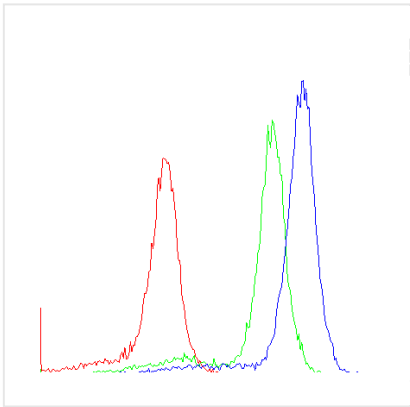
CATALOG # AAA46551	REACTIVITY Mouse, Rat	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

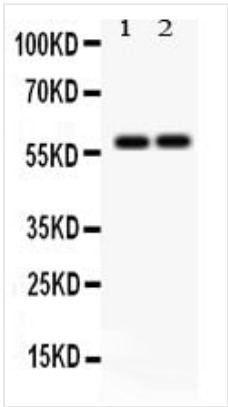
SCARB1; Polyclonal Antibody; Anti-SCARB1 Antibody; Scavenger receptor class B member 1; CD36 AND LIMPII ANALOGOUS 1; CD36; CD36 Antigen like 1; CD36 antigen-like 1; CD36L1; CLA 1; CLA-1; CLA1; Collagen type I receptor; HDLQTL6; MGC138242; Scavebger Receptor Class B Member 1; Scavenger Receptor Class B Type 1; SCRB1_HUMAN; SR BI; SR-BI; SRB1; SRBI; Thrombospondin receptor like 1; thrombospondin receptor-like 1; scavenger receptor class B; member 1; anti-SCARB1 antibody

PRODUCT SPECIFICATIONS

Reactivity	Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	506
Applicable Applications for anti-SCARB1 antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse SCARB1 (478-509aa KKGSQDKEAIQAYSESLMSPAAGTVLQEAKL), different from the related rat sequence by one amino acid.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of BRL cells using anti-SCARB1 antibody (AAA46551).Overlay histogram showing BRL cells stained with AAA46551 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SCARB1 Antibody (AAA46551,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of SCARB1 using anti-SCARB1 antibody (AAA46551).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: Rat Testis Tissue Lysate,Lane 2: Mouse Testis Tissue Lysate.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SCARB1 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SCARB1 at approximately 57KD. The expected band size for SCARB1 is at 57KD.

ADDITIONAL INFORMATION

Related Product Information for anti-SCARB1 antibody	Description: Rabbit IgG polyclonal antibody for Scavenger receptor class B member 1(SCARB1) detection. Tested with WB in Mouse;Rat. 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.
References	1. "Entrez Gene: SCARB1 Scavenger receptor class B, member 1". 2. Acton S, Rigotti A, Landschulz KT, Xu S, Hobbs HH, Krieger M (January 1996). "Identification of scavenger receptor SR-BI as a high density lipoprotein receptor".Science 271 (5248): 518-20. 3. Duggan AE, Marie RS, Callard IP (April 2002). "Expression of SR-BI (Scavenger Receptor Class B Type I) in turtle (Chrysemys picta) tissues and other nonmammalian vertebrates". J. Exp. Zool.292 (5): 430-4.

NCBI AND UNIPROT INFORMATION

NCBI GI #	326537322
NCBI GeneID	20778
NCBI Accession #	NP_001192011.1
NCBI GenBank Nucleotide #	NM_001205082.1
UniProt Accession #	Q61009; Q9CWJ7
Molecular Weight	56,754 Da

NCBI Official Full Name	scavenger receptor class B member 1 isoform 2
NCBI Official Synonym Full Names	scavenger receptor class B, member 1
NCBI Official Symbol	Scarb1
NCBI Official Synonym Symbols	CD36; Cla1; SRBI; Srb1; Cla-1; Hdlq1; SR-B1; SR-BI; Cd36l1; Chohd1; Hlb398; mSR-BI; AI120173; D5Ert460e
NCBI Protein Information	scavenger receptor class B member 1
UniProt Protein Name	Scavenger receptor class B member 1
UniProt Gene Name	Scarb1
UniProt Synonym Gene Names	Srb1; SRB1
UniProt Entry Name	SCRB1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/scarb1-antibody-western-blot-elisa/46551>