BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Scavenging Receptor SR-BI/SCARB1 Antibody Picoband™

Catalog Number: PB9502

About Scarb1

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.

Overview

Product Name	Anti-Scavenging Receptor SR-BI/SCARB1 Antibody Picoband™
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Scavenging Receptor SR-BI/SCARB1 Antibody Picoband™ catalog # PB9502. Tested in Flow Cytometry, IHC, ICC, WB applications. This antibody reacts with Mouse, Rat.
Application	Flow Cytometry, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q61009

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse SCARB1, different from the related rat sequence by one amino acid.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB, supported by SA1022 in IHC(F) and ICC.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG

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Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Mouse, Rat Immunohistochemistry (Frozen Section), 0.5-1ug/ml, Mouse Immunocytochemistry, 0.5-1ug/ml, Mouse Flow Cytometry, 1-3ug/1x10^6 cells, Mouse

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Anti-Scavenging Receptor SR-BI/SCARB1 Antibody Picoband™ (PB9502) Images

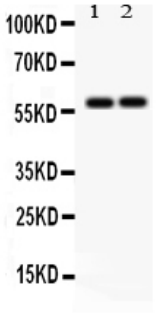

Figure 1. Western blot analysis of SCARB1 using anti-SCARB1 antibody (PB9502).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: Rat Testis Tissue 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 (Catalog # PB9502) at 0.5 ug/mL overnight at 4°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 (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for SCARB1 at approximately 57KD. The expected band size for SCARB1 is at 57KD.

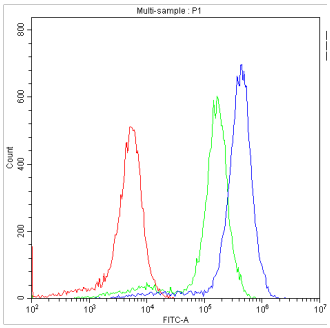

Figure 2. Flow Cytometry analysis of BRL cells using anti-SCARB1 antibody (PB9502).
Overlay histogram showing BRL cells stained with PB9502 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SCARB1 Antibody (PB9502,1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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