bsm-52283R **[Primary Antibody]**

SCARB1/Scavenger Receptor BI Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 1C2
GeneID: 949
SWISS: Q14108
Target: SCARB1/Scavenger Receptor BI
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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.

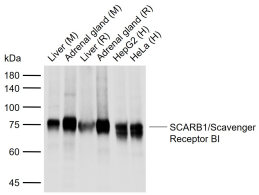
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:200-500)
IF (1:100-500)
ICC/IF (1:50-200)

Reactivity: Human, Mouse, Rat

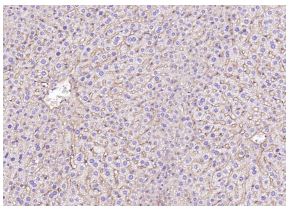
Predicted MW.: 61 kDa

Subcellular Location: Cell membrane ,Cytoplasm

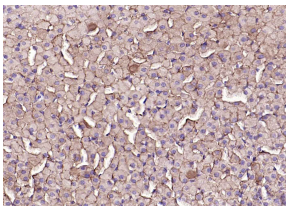
VALIDATION IMAGES



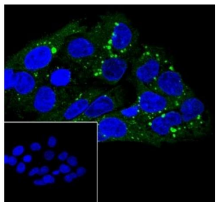
Sample: Lane 1: Mouse Liver tissue lysates Lane 2: Mouse Adrenal gland tissue lysates Lane 3: Rat Liver tissue lysates Lane 4: Rat Adrenal gland tissue lysates Lane 5: Human HepG2 cell lysates Lane 6: Human HeLa cell lysates Primary: Anti-SCARB1/Scavenger Receptor BI (bsm-52283R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 61 kDa Observed band size: 75 kDa



Paraformaldehyde-fixed, paraffin embedded (mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (SCARB1/Scavenger Receptor BI) Monoclonal Antibody, Unconjugated (bsm-52283R) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse adrenal gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (SCARB1/Scavenger Receptor BI) Monoclonal Antibody, Unconjugated (bsm-52283R) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Cell line: HepG2 Fixation: 4% Paraformaldehyde Permeabilization: 0.1% TritonX-100 Primary Ab dilution: 1:50 Primary Ab incubation condition:

4°C overnight Secondary Ab: Goat Anti-Rabbit IgG Nuclear counter stain: DAPI (Blue) Comment: Color green is the positive signal for bsm-52283R

SELECTED CITATIONS

- **[IF=5.8]** Min-Chien Tsai. et al. Cav3.1 T-type calcium channel blocker NNC 55-0396 reduces atherosclerosis by increasing cholesterol efflux. BIOCHEM PHARMACOL. 2024 Apr;222:116096 WB ;Human. 38423188
- **[IF=3.9]** Zhou Qianhui. et al. SEC14L2 regulates the transport of cholesterol in non-small cell lung cancer through SCARB1. LIPIDS HEALTH DIS. 2024 Dec;23(1):1-13 IF ;Human. 39696431