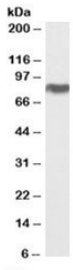
SR-BI Antibody / Scavenger Receptor Class B Type 1 Antibody (R36278)

Catalog No.	Formulation	Size
R36278-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	949
Applications	Western blot: 0.1-1ug/ml ELISA (peptide) LOD: 1:128000
Limitations	This SR-BI Antibody / Scavenger Receptor Class B Type 1 Antibody is available for research use only.



SR-BI Antibody Human Adrenal Gland WB. Western blot analysis of human adrenal gland lysate detected a strong SR-BI immunoreactive band at approximately 80â€“85 kDa. Although the predicted molecular weight is approximately 57 kDa for the unmodified protein, SR-BI commonly migrates near 82 kDa because of extensive glycosylation, consistent with the observed band. The adrenal gland is a major site of SR-BI expression due to its requirement for HDL-derived cholesterol during steroid hormone synthesis. This SR-BI Antibody, a Scavenger Receptor Class B Type 1 Antibody, is well suited for studies of cholesterol transport, steroidogenesis and lipoprotein receptor biology.

Description

SR-BI Antibody / Scavenger Receptor Class B Type 1 Antibody recognizes Scavenger Receptor Class B Type 1, a transmembrane receptor encoded by the SCARB1 gene that plays a central role in high-density lipoprotein (HDL) metabolism and reverse cholesterol transport. Unlike endocytic lipoprotein receptors, SR-BI selectively transfers cholesterol esters from HDL particles into cells while allowing the lipoprotein particle to remain largely intact. This unique

mechanism supports hepatic cholesterol clearance, steroid hormone production and whole-body cholesterol homeostasis. NSJ Bioreagents provides SR-BI antibodies for studies of lipid metabolism, cardiovascular biology and receptor-mediated cholesterol transport.

Scavenger Receptor Class B Type 1 is expressed at high levels in liver, adrenal gland, ovary, testis and other steroidogenic tissues where cholesterol serves as the precursor for steroid hormone synthesis. The receptor also regulates membrane lipid composition, endothelial function and inflammatory responses, making it an important mediator of vascular health. Altered expression or function of SR-BI has been associated with atherosclerosis, dyslipidemia and inherited disorders of cholesterol metabolism, emphasizing its importance in both normal physiology and disease.

Beyond lipid transport, Scavenger Receptor Class B Type 1 has emerged as a valuable research target in oncology, virology and metabolic disease. Increased receptor expression can support the elevated cholesterol requirements of proliferating tumor cells, while several pathogens utilize SR-BI during host cell entry. These diverse biological roles have expanded interest in SR-BI across multiple areas of biomedical research, including therapeutic development aimed at modulating cholesterol handling and receptor function.

An SR-BI Antibody is an effective tool for detecting Scavenger Receptor Class B Type 1 by Western blotting, immunohistochemistry, immunofluorescence, flow cytometry and related immunoassays. A Scavenger Receptor Class B Type 1 Antibody supports investigations of HDL receptor biology, cholesterol transport, steroidogenesis and cardiovascular disease.

For additional information on HDL receptor biology and cholesterol transport, see our SRBI Antibody / HDL Receptor Antibody page, which provides an overview of SRBI structure, function and research applications.

Application Notes

Optimal dilution of the SR-BI Antibody / Scavenger Receptor Class B Type 1 Antibody should be determined by the researcher.

1. This SR-BI antibody is specific for isoform 1.

Immunogen

Amino acids TSAPKGSVLQEAK were used as the immunogen for this SR-BI antibody.

Storage

Aliquot and store the SR-BI antibody at -20oC.

Alternate Names

SR-BI antibody, Scavenger Receptor Class B Type 1 antibody, SCARB1 antibody, CLA-1 antibody

References (1)

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