# Product Datasheet

## SR-BI/SR-BII Antibody - BSA Free
## NB400-134SS

Unit Size: 0.025 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**Reviews: 1 Publications: 11**

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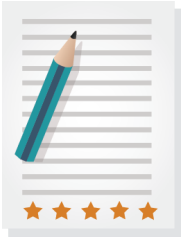
Updated 9/9/2025 v.20.1





# NB400-134SS

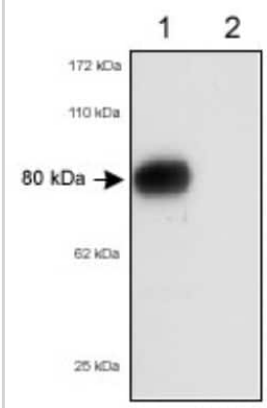
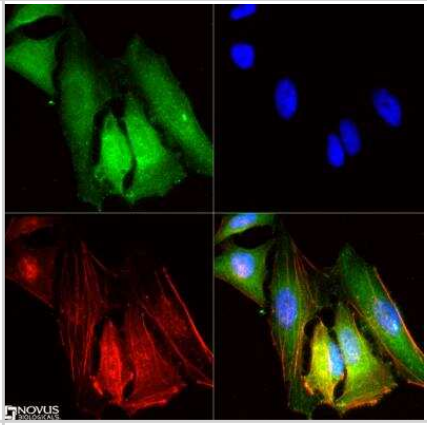
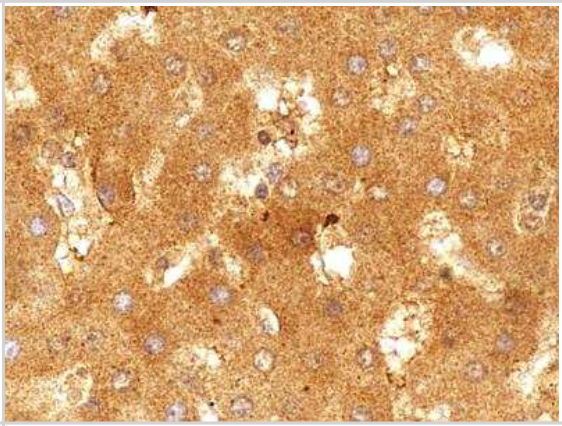
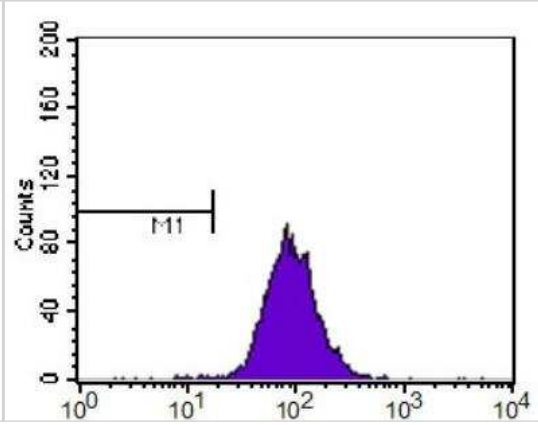
SR-BI/SR-BII Antibody - BSA Free

| Product Information | |
|---|---|
| **Unit Size** | 0.025 ml |
| **Concentration** | This product is unpurified. The exact concentration of antibody is not quantifiable. |
| **Storage** | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles. |
| **Clonality** | Polyclonal |
| **Preservative** | 0.02% Sodium Azide |
| **Isotype** | IgG |
| **Purity** | Unpurified |
| **Buffer** | Whole antisera |
| **Target Molecular Weight** | 82 kDa |

| Product Description | |
|---|---|
| **Description** | Novus Biologicals Knockout (KO) Validated Rabbit SR-BI/SR-BII Antibody - BSA Free (NB400-134) is a polyclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-SR-BI/SR-BII Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| **Host** | Rabbit |
| **Gene ID** | 949 |
| **Gene Symbol** | SCARB1 |
| **Species** | Human, Mouse, Rat |
| **Reactivity Notes** | Rat (PMID: 22097902) and Human (PMID: 17105723) reactivity reported ins scientific literature |
| **Immunogen** | A peptide from the extracellular domain (residues 230-380) of Scavenger Receptor-BI/BII that was expressed as two tandem copies in bacteria using the pET system. |

| Product Application Details | |
|---|---|
| **Applications** | Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Block/Neutralize, Immunohistochemistry-Frozen (Negative), Knockout Validated |
| **Recommended Dilutions** | Western Blot 1:1000, Flow Cytometry 1:400. Use reported in scientific literature (PMID 22097902), Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:50-1:1000, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen (Negative) 5 ug/ml, Knockout Validated, Block/Neutralize reported in scientific literature (PMID 24859737) |
| **Application Notes** | 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. |

## Images

| | |
|---|---|
| Western Blot: SR-BI/SR-BII Antibody [NB400-134] - Detection of RED-1 in 80 ug of total mouse liver lysates. Lane 1: wild-type mice, Lane 2: SR-BI deficient mice. |  |
| Immunocytochemistry/Immunofluorescence: SR-BI/SR-BII Antibody [NB400-134] - 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). |  |
| Immunohistochemistry-Paraffin: SR-BI/SR-BII Antibody [NB400-134] - 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] |  |
| Flow Cytometry: SR-BI/SR-BII Antibody [NB400-134] - 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. |  |

## Publications


Xiao Wang, Huimin Wang, Bolin Xu, Dong Huang, Chao Nie, Longjun Pu, Gregory J M Zajac, Han Yan, Jingru Zhao, Fangyuan Shi, Brian T Emmer, Jia Lu, Rui Wang, Xiaohui Dong, Jianye Dai, Wenjing Zhou, Chu Wang, Ge Gao, Yan Wang, Cristen Willer, Xiangfeng Lu, Yuangang Zhu, Xiao-Wei Chen Receptor-Mediated ER Export of Lipoproteins Controls Lipid Homeostasis in Mice and Humans. Cell metabolism 2021-11-29 [PMID: 33186557]

Kakava S, Schlumpf E, Panteloglou G et al. Brain Endothelial Cells in Contrary to the Aortic Do Not Transport but Degrade Low-Density Lipoproteins via Both LDLR and ALK1 Cells 2022-09-28 [PMID: 36231005] (WB, Human)

May SC, Dron JS, Hegele RA, Sahoo D Human Variant of Scavenger Receptor BI (R174C) Exhibits Impaired Cholesterol Transport Functions Journal of lipid research 2021-02-09 [PMID: 33577783]

Emert B, Hasin-Brumshtein Y, Springstead JR et al. HDL inhibits the effects of oxidized phospholipids on endothelial cell gene expression via multiple mechanisms [S] J Lipid Res. 2014-01-29 [PMID: 24859737] (BN, Human)

Huang, L;Chambliss, KL;Gao, X;Yuhanna, IS;Behling-Kelly, E;Bergaya, S;Ahmed, M;Michaely, P;Luby-Phelps, K;Darehshouri, A;Xu, L;Fisher, EA;Ge, WP;Mineo, C;Shaul, PW; SR-B1 drives endothelial cell LDL transcytosis via DOCK4 to promote atherosclerosis Nature 2019-04-24 [PMID: 31019307] (WB, Human)

Schafer G, Guler R, Murray G et al. The role of scavenger receptor B1 in infection with Mycobacterium tuberculosis in a murine model. PLoS One 2009-01-01 [PMID: 20041149]

Kartz GA, Holme RL, Nicholson K, Sahoo, D. SR-BI/CD36 Chimeric Receptors Define Extracellular Subdomains of SR-BI Critical for Cholesterol Transport. Biochemistry 2014-09-23 [PMID: 25211142]

Norgaard N, Holien T, Jonsson S et al. CpG-oligodeoxynucleotide inhibits Smad-dependent bone morphogenetic protein signaling: effects on myeloma cell apoptosis and in vitro osteoblastogenesis. J Immunol. 2010-01-01 [PMID: 20702733]

Hu J, Zhang Z, Shen W-J et al. Differential Roles of Cysteine Residues in Cellular Trafficking, Dimerization, and Function of the HDL Receptor, SR-BI. Biochemistry. 2011-11-18 [PMID: 22097902] (FLOW, Rat)

Harder CJ, Meng A, Rippstein P et al. SR-BI undergoes cholesterol-stimulated transcytosis to the bile canaliculus in polarized WIF-B cells. J Biol Chem 2007-01-12 [PMID: 17105723] (ICC/IF, Human)

Silver, DL. A carboxyl-terminal PDZ-interacting domain of scavenger receptor B, type I is essential for cell surface expression in liver. J Biol Chem;277(37):34042-7. 2002-09-13 [PMID: 12119305] (WB, IP, Human)

## Procedures

**Western Blot protocol for SR-BI/SR-BII Antibody (NB400-134)**

Western Blot Procedure
1. Run 80 ug of protein on a 4-20% Tris-glycine mini-gel at 125V for 60 minutes.
2. Equilibrate gel, nitrocellulose membrane, Whatman paper, and blotting pads in transfer buffer for 15 minutes.
3. Transfer protein to the membrane at 25V for 90 minutes.
4. Allow membrane to air-dry.
5. Block membrane with 1XPBS/5% non-fat milk/0.1% Tween-20 for 1 hour at room temperature (23-27 degrees C).
6. Wash membrane twice, for 5 minutes each, with 1XPBS/0.05% Tween-20 (PBST).
7. Incubate membrane with 1:1,000 dilution of NB400-134 (anti-SR-BI/BII), diluted in 1XPBS/1% BSA, for 1 hour at room temperature.
8. Wash membrane once for 15 minutes, then four times for 5 minutes each, with PBST.
9. Incubate membrane with dilution of goat anti-rabbit IgG-HRP (secondary), diluted in 1XPBS/1% BSA, for 1 hour at room temperature.
10. Wash membrane once for 15 minutes, then four times for 5 minutes each, with PBST. 11. Detect cross-reacting proteins using Chemiluminescence reagents.

**Immunocytochemistry/Immunofluorescence protocol for SR-BI/SR-BII Antibody (NB400-134)**

Immunocytochemistry Protocol

Culture cells to appropriate density on suitable glass coverslips in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 5-10 minutes.
2. Remove the formalin and add 0.5% Triton-X 100 in TBS to permeabilize the cells. Incubate for 5-10 minutes.
3. Remove the permeabilization buffer and add wash buffer (i.e. PBS or PBS with 0.1% Tween-20). Be sure to not let the specimen dry out. Gently wash three times for 10 minutes.
4. Alternatively, cells can be fixed with -20C methanol for 10 min at room temperature. Remove the methanol and rehydrate in PBS for 10 min before proceeding.
5. To block nonspecific antibody binding incubate in 10% normal goat serum for 1 hour at room temperature.
6. Add primary antibody at appropriate dilution and incubate at room temperature for 1 hour or at 4 degrees C overnight.
7. Remove primary antibody and replace with wash buffer. Gently wash three times for 10 minutes.
8. Add secondary antibody at the appropriate dilution. Incubate for 1 hour at room temperature.
9. Remove antibody and replace with wash buffer.  Gently wash three times for 10 minutes.
10. Nuclei can be staining with 4',6' diamino phenylindole (DAPI) at 0.1 ug/ml, or coverslips can be directly mounted in media containing DAPI.
11. Cells can now be viewed with a fluorescence microscope.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow proper laboratory procedures for the disposal of formalin.

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