Product Datasheet

SR-AI/MSR Antibody - BSA Free
NBP1-00092

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Reviews: 2 Publications: 8

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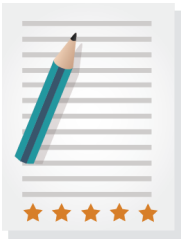
Updated 10/23/2024 v.20.1



NBP1-00092

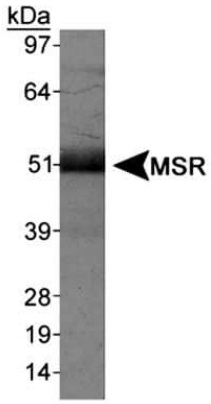
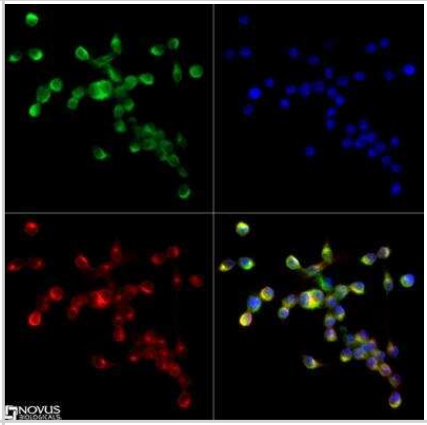
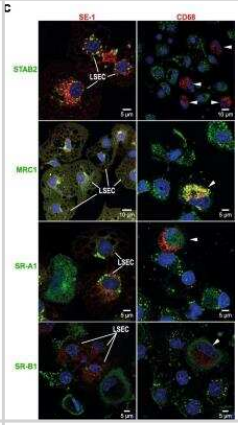
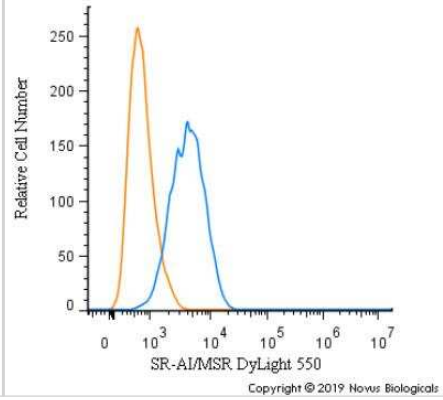
SR-AI/MSR Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.00 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Target Molecular Weight	50 kDa

Product Description	
Host	Rabbit
Gene ID	4481
Gene Symbol	MSR1
Species	Human, Mouse
Immunogen	Synthetic peptide made to an internal portion of human Macrophage Scavenger Receptor I (within residues 400-450). [Swiss-Prot: P21757]

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Proximity Ligation Assay
Recommended Dilutions	Western Blot 0.5 ug/ml, Flow Cytometry 2-5 ug/million cells, Immunohistochemistry reported in scientific literature (PMID 26358193), Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Proximity Ligation Assay reported in scientific literature (PMID 28338748)
Application Notes	In Western blot, a band is seen ~50 kDa.

Images

Western Blot: SR-AI/MSR Antibody [NBP1-00092] - Detection of Macrophage Scavenger Receptor I (MSR1) protein in the lysate of human liver.	
Immunocytochemistry/Immunofluorescence: SR-AI/MSR Antibody [NBP1-00092] - The MSR antibody was tested in Raw cells at a 1:250 dilution against DyLight 488 (Green). Alpha-tubulin and nuclei were counterstained against DyLight 550 (Red) and DAPI (Blue), respectively.	
Immunohistochemistry-Frozen: SR-AI/MSR Antibody - BSA Free [NBP1-00092] - Immune labeling of non-parenchymal liver cell (NPC) cultures for selected SRs and C-type lectins. NPCs from the 25-45% interface on the Percoll gradient were incubated for 1 h, then fixed 15 min in 4% paraformaldehyde, and double immune-labeled with antibodies to Fc-gamma-RIIb2 (SE-1; red fluorescence; left column), or CD68 (red fluorescence; right column), and to either stabilin-2 (STAB2; green), mannose receptor (MRC1; green), SR-A1 (green), or SR-B1 (green). Overlap of green and red fluorescence is seen as yellow staining in the overlay images. Cell nuclei were stained with DAPI (blue). Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/33246411/) licensed under a CC-BY license.	
Flow Cytometry: SR-AI/MSR Antibody [NBP1-00092] - A surface stain was performed on Raw264.7 cells with SR-AI/MSR Antibody NBP1-00092R (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 5 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to DyLight 550.	

Publications

Chen J, Koduri S, Dai S et al. Intra-hematomal White Matter Tracts Act As a Scaffold for Macrophage Infiltration After Intracerebral Hemorrhage Translational Stroke Research 2021-10-01 [PMID: 33094829] (Immunohistochemistry)

Wang P, Li M, Gao T et al. Vascular Electrical Stimulation with Wireless, Battery-Free, and Fully Implantable Features Reduces Atherosclerotic Plaque Formation Through Sirt1-Mediated Autophagy Small (Weinheim an der Bergstrasse, Germany) 2023-06-02 [PMID: 37267941] (WB, Mouse)

Bhandari, S, Li, R Et al. Transcriptome and proteome profiling reveal complementary scavenger and immune features of rat liver sinusoidal endothelial cells and liver macrophages. BMC Mol Cell Biol 2020-11-27 [PMID: 33246411] (WB, Mouse)

Ma C, Feng K, Yang X, et al. Targeting macrophage liver X receptor by hydrogel-encapsulated T0901317 reduces atherosclerosis without effect on hepatic lipogenesis British journal of pharmacology 2021-01-28 [PMID: 33506494]

Cao L, Sun PL, He Y et al. Immune stromal features in cervical squamous cell carcinoma are prognostic factors for distant metastasis: A retrospective study Pathol. Res. Pract. 2019-11-18 [PMID: 31776057] (IF/IHC, Human)

Komai K, Ito M, Kanamori M et al. Role of scavenger receptors as damage-associated molecular pattern receptors in Toll-like receptor activation. International Immunology. 2017-02-24 [PMID: 28338748] (PLA, Mouse)

Bartels ED, Christoffersen C, Lindholm MW, Nielsen LB. Altered Metabolism of LDL in the Arterial Wall Precedes Atherosclerosis Regression. Circ. Res. 2015-09-10 [PMID: 26358193] (IF/IHC, Mouse)

Piccolo P, Vetrini F, Mithbaokar P et al. SR-A and SREC-I Are Kupffer and Endothelial Cell Receptors for Helper-dependent Adenoviral Vectors. Mol Ther 2013-01-29 [PMID: 23358188] (ICC/IF, IHC-Fr, Mouse)

Procedures

Protocol specific for Macrophage Scavenger Receptor I Antibody (NBP1-00092)
SR-AI/MSR Antibody:
Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH2O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% NFDM + 1% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-MSR1 primary antibody (NBP1-100092) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-00092

NB820-59232	Human Liver Whole Tissue Lysate (Adult Whole Normal)
NBP1-00092PEP	SR-AI/MSR Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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