Product Datasheet

SR-BI Antibody
NB400-113

Unit Size: 0.1 ml

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

Reviews: 1  Publications: 27

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Updated 10/29/2018 v.20.1

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**Product Information**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>This product is unpurified. The exact concentration of antibody is not quantifiable.</td>
</tr>
<tr>
<td>Storage</td>
<td>Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.05% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
<tr>
<td>Purity</td>
<td>Unpurified</td>
</tr>
<tr>
<td>Buffer</td>
<td>Whole antisera</td>
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</table>

**Product Description**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Gene ID</td>
<td>949</td>
</tr>
<tr>
<td>Gene Symbol</td>
<td>SCARB1</td>
</tr>
<tr>
<td>Species</td>
<td>Human, Mouse, Rat</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Adenovirus encoding mouse SR-BI. [UniProt# Q61009]</td>
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**Product Application Details**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Block/Neutralize</td>
</tr>
<tr>
<td>Recommended Dilutions</td>
<td>Western Blot 1:500, Flow Cytometry, Immunohistochemistry 1:100, Immunocytochemistry/Immunofluorescence 1:50-1:200, Immunoprecipitation 1:100, Immunohistochemistry-Paraffin 1:100, Immunohistochemistry-Frozen, Block/Neutralize</td>
</tr>
<tr>
<td>Application Notes</td>
<td>This SR-BI antibody is useful for Flow Cytometry (PMID: 22622498), Immunocytochemistry/Immunofluorescence, Immunoprecipitation, Western blot and for blocking the binding of ligands to SR-BI. Immunohistochemistry-Frozen was reported in scientific literature.</td>
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</table>
Immunocytochemistry/Immunofluorescence: SR-BI Antibody [NB400-113] - 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 Antibody [NB400-113] - Analysis of a FFPE section of human adrenal gland tissue using 1:100 dilution of SR-BI antibody. The staining was developed using HRP-DAB based detection method and the nuclei of the cells were counterstained with hematoxylin. This antibody generated a specific staining of SR-BI/SCARB1 in the glandular cells. The staining was membrane-cytoplasmic in the zona glomerulosa cells while the signal was primarily localized to the membranes of the cells in the zona fasciculata and zona reticularis layers of the adrenal cortex.

Immunohistochemistry-Paraffin: SR-BI Antibody [NB400-113] - Analysis of a FFPE section of human adrenal gland tissue using 1:100 dilution of SR-BI antibody. The staining was developed using HRP-DAB based detection method and the nuclei of the cells were counterstained using hematoxylin. The representative section shows SR-BI/SCARB1 positivity in the glandular cells and the staining was mainly localized to the membranes of the cells.


Kadam PD, Chuan HH. Erratum to: Rectocutaneous fistula with transmigration of the suture: a rare delayed complication of vault fixation with the sacrospinous ligament. Int Urogynecol J 2016 Mar [PMID: 26811110]


Sharma M, Von Zychlinski-Kleffmann A, Porteous CM et al. Lipoprotein(a) upregulates ABCA1 in liver cells via scavenger receptor-B1 through its oxidised phospholipids J. Lipid Res. 2015 Apr 06 [PMID: 25852127] (B/N, Human)

Details:
SR-B1 antibody was used for blocking the SR-B1 receptor on HepG2 cells. The cells were preincubated with 5 µg/ml of anti-SR-B1 antibody for 3 hours at 37°C prior to lipoprotein(a) treatment. The proteins from the treated cells were then analysed for the ABCA1, PPAR-gamma and LXR alpha expression.


More publications at http://www.novusbio.com/NB400-113
### Procedures

#### Blocking/Neutralizing Protocol for SR-BI Antibody (NB400-113)

**Blocking Protocol**

1. Transfect 293 cells or Cos cells or any easily transfectable cell line with SR-BI.

2. Next day, add DMEM with 0.2% BSA to the media plus 1:500 dilution (or 1:1000) dilution of the SR-BI blocking ab. Incubate for 30 minutes to 1 hour at 37 deg C.

3. Add 1 to 10ug/ml of radiolabeled or fluorescent HDL (labeled either on the lipid or protein) to cells for 1 to 2 hours (in the presence of the blocking antibody). For control cells, do not add blocking antibody.

4. Wash cells 3 to 4 times with ice cold PBS.

5. Measure HDL uptake by appropriate method (depending on label on HDL).

**Note:** As a positive control, you can add an excess (100-fold more) of unlabeled HDL to cells together with the label. This should block the uptake of labeled HDL by 80% or more. This positive control should tell you that your cells are expressing functional SR-BI. Also, cells not receiving either unlabeled HDL or no blocking ab should tell you that your cells are expressing functional SR-BI.

#### Western blot Protocol for SR-BI Antibody (NB400-113)

**Western Blot Protocol**

1. Perform SDS-PAGE on samples to be analyzed, loading 30 ug of total protein per lane.

2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.

3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.

4. Rinse the blot.

5. Block the membrane using standard blocking buffer for at least 1 hour.

6. Wash the membrane in wash buffer three times for 10 minutes each.

7. Dilute anti-SR-BI rabbit primary antibody in blocking buffer and incubate 1 hour at room temperature.

8. Wash the membrane in wash buffer three times for 10 minutes each.

9. Apply the diluted 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 three 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.

**Note:** Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05 -0.2%.

#### ICC/IF Protocol for SR-BI Antibody (NB400-113)

**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.*
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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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