Product datasheet

Anti-Scavenging Receptor SR-BI antibody [EP1556Y] ab52629

Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-Scavenging Receptor SR-BI antibody [EP1556Y]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit monoclonal [EP1556Y] to Scavenging Receptor SR-BI</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: WB, IHC-P</td>
</tr>
<tr>
<td></td>
<td>Unsuitable for: Flow Cyt or ICC</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Mouse, Rat, Sheep, Human</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Synthetic peptide within Human Scavenging Receptor SR-BI aa 50-150 (N terminal). The exact sequence is proprietary. Database link: Q8WTVO</td>
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<tr>
<td>Positive control</td>
<td>WB: Mouse liver tissue lysate.</td>
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<tr>
<td>General notes</td>
<td>Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents. We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team. This product is a recombinant rabbit monoclonal antibody.</td>
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</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>pH: 7.20</td>
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<tr>
<td></td>
<td>Preservative: 0.01% Sodium azide</td>
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<tr>
<td></td>
<td>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</td>
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<tr>
<td>Purity</td>
<td>Protein A purified</td>
</tr>
</tbody>
</table>
**Clonality**  
Monoclonal

**Clone number**  
EP1556Y

**Isotype**  
IgG

### Applications

Our **Abpromise guarantee** covers the use of **ab52629** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/500.</td>
</tr>
</tbody>
</table>

**Application notes**  
Is unsuitable for Flow Cyt or ICC.

### Target

**Function**  
Receptor for different ligands such as phospholipids, cholesterol ester, lipoproteins, phosphatidylserine and apoptotic cells. Probable receptor for HDL, located in particular region of the plasma membrane, called caveolae. Facilitates the flux of free and esterified cholesterol between the cell surface and extracellular donors and acceptors, such as HDL and to a lesser extent, apoB-containing lipoproteins and modified lipoproteins. Probably involved in the phagocytosis of apoptotic cells, via its phosphatidylserine binding activity. Receptor for hepatitis C virus glycoprotein E2. Binding between SCARB1 and E2 was found to be independent of the genotype of the viral isolate. Plays an important role in the uptake of HDL cholesteryl ester.

**Tissue specificity**  
Widely expressed.

**Sequence similarities**  
Belongs to the CD36 family.

**Post-translational modifications**  
N-glycosylated.

**Cellular localization**  
Cell membrane. Membrane > caveola. Predominantly localized to cholesterol and sphingomyelin-enriched domains within the plasma membrane, called caveolae.

### Images
**Lane 1:** Wild-type HAP1 whole cell lysate (20 µg)

**Lane 2:** Scavenging Receptor SR-BI knockout HAP1 whole cell lysate (20 µg)

**Lane 3:** HepG2 whole cell lysate (20 µg)

**Lane 4:** Human liver whole cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab52629 observed at 80 kDa. Red - loading control, ab9484, observed at 37 kDa.

ab52629 was shown to specifically react with Scavenging Receptor SR-BI in wild-type HAP1 cells as signal was lost in Scavenging Receptor SR-BI knockout cells. Wild-type and Scavenging Receptor SR-BI knockout samples were subjected to SDS-PAGE. Ab52629 and ab9484 (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/2000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ab216776 secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.
All lanes: Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab52629) at 1/1000 dilution (purified)

Lane 1: Mouse liver lysate
Lane 2: Rat liver lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes: Anti-rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Observed band size: 80 kDa

Blocking buffer: 5% NFDM/TBST
Dilution buffer: 5% NFDM/TBST

All lanes: Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab52629) at 1/1000 dilution (purified)

Lane 1: Human fetal liver lysate
Lane 2: HepG2 lysate
Lane 3: PC-3 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes: Anti-rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Observed band size: 80 kDa

Blocking buffer: 5% NFDM/TBST
Dilution buffer: 5% NFDM/TBST
Immunohistochemical staining of paraffin embedded human liver with purified ab52629 at a working dilution of 1/500. The secondary antibody used is ab97051, a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Anti-Scaevenging Receptor SR-BI antibody [EP1556Y] (ab52629) at 1/2000 dilution (unpurified) + Mouse liver lysate at 10 µg

Secondary
goat anti-rabbit HRP at 1/2000 dilution

**Observed band size:** 80 kDa
THP1 cells were incubated at 37°C for 40h with vehicle control (0 µM) and different concentrations of sodium salicylate (ab120746). Decreased expression of scavenging receptor SR-BI in THP1 cells correlates with an increase in sodium salicylate concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10 µg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with unpurified ab52629 at 1/2000 dilution and ab8227 at 1 µg/ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (ab97051) at 1/10000 dilution and visualised using ECL development solution.

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