abcam

Product datasheet

HRP Anti-Scavenging Receptor SR-BI antibody [EP1556Y] ab206233

KO VALIDATED Recombinant RabMAb

4 Images

Overview

Product name	HRP Anti-Scavenging Receptor SR-BI antibody [EP1556Y]
Description	HRP Rabbit monoclonal [EP1556Y] to Scavenging Receptor SR-BI
Host species	Rabbit
Conjugation	HRP
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Mouse liver tissue lysate. IHC-P: normal human liver tissue sections
General notes	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1556Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab206233 in the following tested applications.

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

Application	Abreviews	Notes
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/2000. Detects a band of approximately 76 kDa (predicted molecular weight: 60 kDa).

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

Western blot - HRP Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab206233)

All lanes : HRP Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab206233) at 1/2000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : SCARB1 (Scavenging Receptor SR-BI) knockout HAP1 whole cell lysate

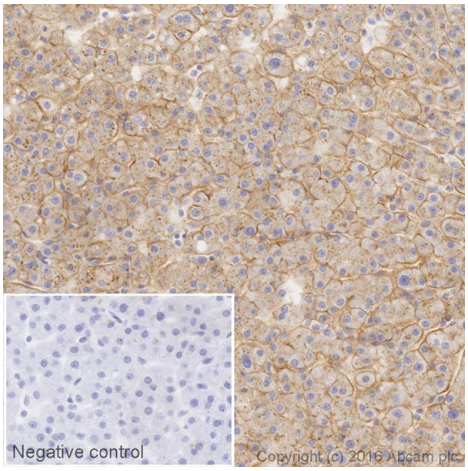
Lysates/proteins at 20 µg per lane.

Predicted band size: 60 kDa

Observed band size: 76 kDa

Exposure time: 20 minutes

ab206233 was shown to specifically react with Scavenging Receptor SR-BI in wild-type HAP1 cells as signal was lost in SCARB1 (Scavenging Receptor SR-BI) knockout cells. Wild-type and SCARB1 (Scavenging Receptor SR-BI) knockout samples were subjected to SDS-PAGE. Ab206233 and **ab184095** (Mouse monoclonal [mAbcam 9484] to GAPDH - Loading Control (Alexa Fluor® 680) loading control) were incubated overnight at 4°C at 1/2000 dilution and 1/20000 dilution respectively. The loading control was imaged using the Licor Odyssey CLx prior to blots being developed with ECL technique.

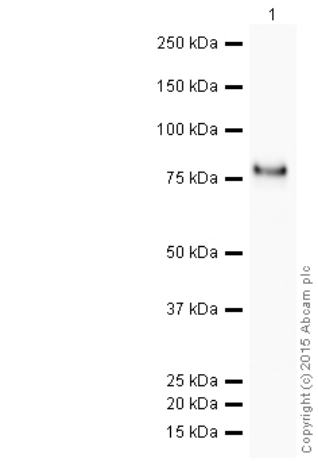


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab206233)

IHC image of Scavenging Receptor SR-BI staining in a section of formalin-fixed paraffin-embedded normal human liver*, performed on a Leica BOND™. The section was pre-treated using heat mediated antigen retrieval with Tris/EDTA buffer (pH9, epitope retrieval solution 2) for 20mins. The section was then incubated with ab206233, 1/100 dilution, for 15 mins at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - HRP Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab206233)

HRP Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab206233) at 1/2000 dilution + Liver (Mouse) Tissue Lysate at 10 µg

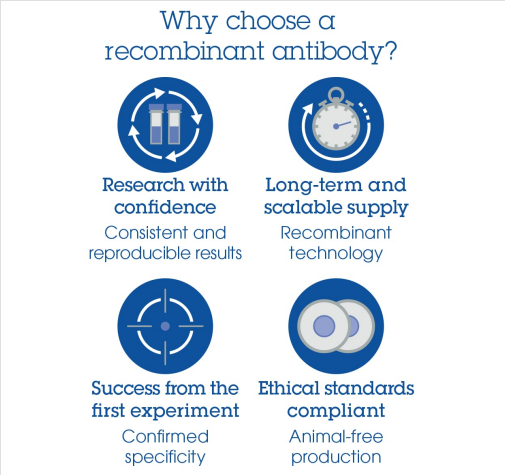
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 60 kDa
Observed band size: 76 kDa

Exposure time: 8 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before being incubated with ab206233 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.



HRP Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab206233)

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