abcam

Product datasheet

# Anti-Scavenging Receptor SR-BI antibody [25/CLA-1] ab300632

KO VALIDATED Recombinant

7 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-Scavenging Receptor SR-BI antibody [25/CLA-1] |
| **Description** | Mouse monoclonal [25/CLA-1] to Scavenging Receptor SR-BI |
| **Host species** | Mouse |
| **Tested applications** | **Suitable for:** WB, IHC-P<br>**Unsuitable for:** ICC/IF |
| **Species reactivity** | **Reacts with:** Human<br>**Does not react with:** Mouse, Rat |
| **Immunogen** | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | WB: LNCaP, HeLa, PC-3, human liver tissue, wild- type HAP1, HepG2 and wild-type HEK-293T whole cell lysates. IHC-P: Human liver, human cerebrum, human hepatocellular carcinoma FFPE tissue sections. |
| **General notes** | This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**.<br>This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**. |

## 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 long term. Avoid freeze / thaw cycle. |
| **Storage buffer** | pH: 7.20<br>Preservative: 0.01% Sodium azide<br>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |

| | |
|---|---|
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | 25/CLA-1 |
| **Isotype** | IgG1 |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab300632 in the following tested applications.

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

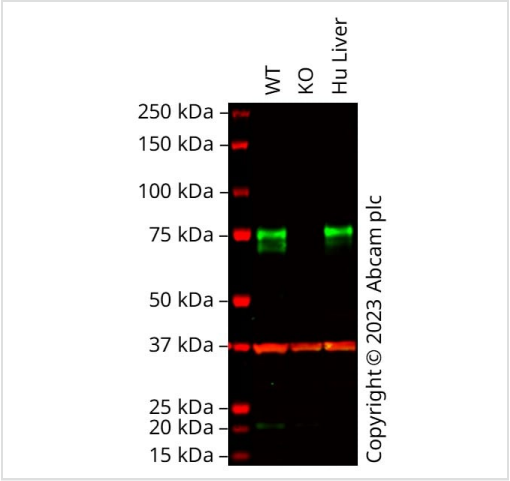
| Application | Abreviews | Notes |
|---|---|---|
| **WB** | | 1/1000. Detects a band of approximately 80 kDa (predicted molecular weight: 60 kDa). |
| **IHC-P** | | 1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |

**Application notes** Is unsuitable for ICC/IF.

## 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 - Anti-Scavenging Receptor SR-BI antibody [25/CLA-1] (ab300632)

**All lanes :** Anti-Scavenging Receptor SR-BI antibody [25/CLA-1] (ab300632) at 1/1000 dilution

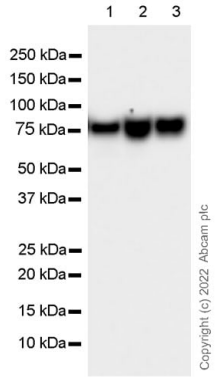
**Lane 1 :** Wild-type HEK-293T cell lysate
**Lane 2 :** SCARB1 knockout HEK-293T cell lysate
**Lane 3 :** Human Liver cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 60 kDa
**Observed band size:** 70,75 kDa

False colour image of Western blot: Anti-Scavenging Receptor SR-BI antibody [25/CLA-1] staining at 1/1000 dilution, shown in green; Rabbit Anti-GAPDH antibody [EPR16891] (**ab181602**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab300632 was shown to bind specifically to Scavenging Receptor SR-BI. A band was observed at 70 and 75 kDa in wild-type HEK-293T cell lysates with no signal observed at this size in SCARB1 knockout cell line **ab282646**. To generate this image, wild-type and SCARB1 knockout HEK-293T cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed (**ab216777**) at 1/20000 dilution.




Western blot - Anti-SCARB1 antibody [25/CLA-1] (AB300632)

**All lanes :** Anti-Scavenging Receptor SR-BI antibody [25/CLA-1] (ab300632) at 1/1000 dilution

**Lane 1 :** LNCaP (human prostate carcinoma epithelial cell), whole cell lysate
**Lane 2 :** PC-3 (human prostate adenocarcinoma epithelial cell), whole cell lysate
**Lane 3 :** Human liver tissue lysate

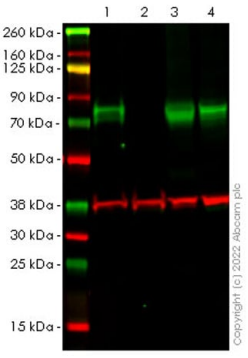
Lysates/proteins at 10 µg per lane.

**Secondary**
**All lanes :** Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution

**Predicted band size:** 60 kDa
**Observed band size:** 80 kDa

**Exposure time:** 26 seconds

Blocking / Diluting buffer and concentration: 5% NFDM/TBST




Western blot - Anti-SCARB1 antibody [25/CLA-1] (AB300632)

**All lanes :** Anti-Scavenging Receptor SR-BI antibody [25/CLA-1] (ab300632) at 1/1000 dilution

**Lane 1 :** Wild type HAP1, whole cell lysate
**Lane 2 :** SCARB1 knockout HAP1, whole cell lysate
**Lane 3 :** HepG2 (human hepatocellular carcinoma epithelial cell), whole cell lysate
**Lane 4 :** HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**
**All lanes :** Goat Anti-Mouse IgG H&L (IRDye® 800CW) (**ab216772**) and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) (**ab216777**) at 1/10000 dilution

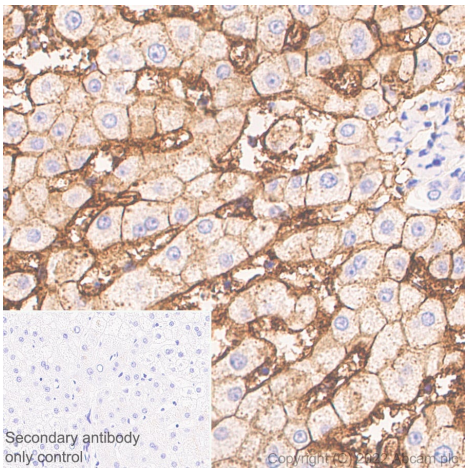
Performed under reducing conditions.

**Predicted band size:** 60 kDa
**Observed band size:** 80 kDa

False colour image of Western blot: Anti-Scavenging Receptor SR-BI antibody [725/CLA-1] (ab300632) staining at 1/1000 dilution, shown in green; Rabbit anti-GAPDH antibody [16891] (**ab181602**) loading control staining at 1/20000 dilution, shown in red.

In Western blot, ab300632 was shown to bind specifically to SCARB1. A band was observed at 80 kDa in wild-type HAP1 cell lysates with no signal observed at this size in the SCARB1 knockout cell line. To generate this image, wild-type and SCARB1 knockout HAP1 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a PVDF-FL membrane. Membranes were blocked in Odyssey diluted in equal volume of 0.1 % TBS before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged.

Performed under reducing conditions.

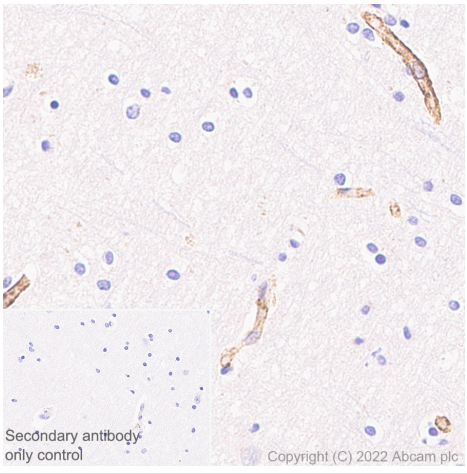



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCARB1 antibody [25/CLA-1] (AB300632)

Immunohistochemical analysis of paraffin-embedded human liver labeling SCARB1 with ab300632 at 1/1000 dilution (1.01 µg/ml) followed by anti-mouse IgG1 antibody (**ab125913**) for 8 minutes during the Leica DS9800 kit staining procedure. Positive staining on human liver. The section was incubated with ab300632 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody only without primary.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

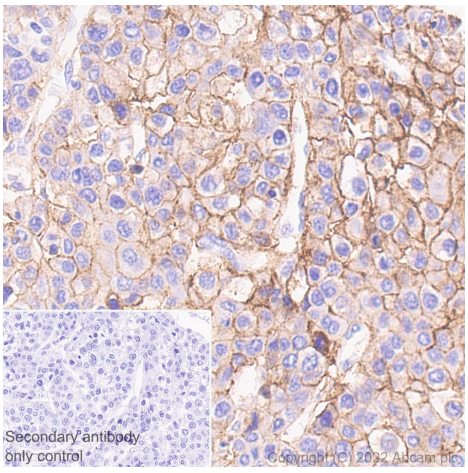



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCARB1 antibody [25/CLA-1] (AB300632)

Immunohistochemical analysis of paraffin-embedded human cerebrum labeling SCARB1 with ab300632 at 1/1000 dilution (1.01 µg/ml) followed by anti-mouse IgG1 antibody (**ab125913**) for 8 minutes during the Leica DS9800 kit staining procedure. Positive staining on blood vessels of human cerebrum. The section was incubated with ab300632 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody only without primary.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

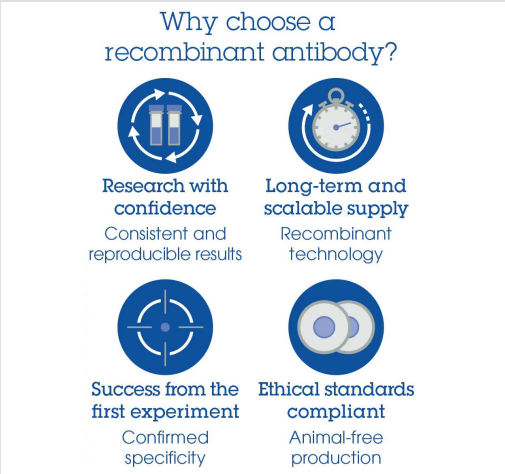



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCARB1 antibody [25/CLA-1] (AB300632)

Immunohistochemical analysis of paraffin-embedded human hepatocellular carcinoma labeling SCARB1 with ab300632 at 1/1000 dilution (1.01 µg/ml) followed by anti-mouse IgG1 antibody (**ab125913**) for 8 minutes during the Leica DS9800 kit staining procedure. Positive staining on human hepatocellular carcinoma. The section was incubated with ab300632 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody only without primary.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins




Anti-SCARB1 antibody [25/CLA-1] (AB300632)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

## Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors