abcam

Product datasheet

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

敲除验证 重组 RabMAb

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概述

产品名称	Anti-Scavenging Receptor SR-BI抗体[EP1556Y]
描述	兔单克隆抗体[EP1556Y] to Scavenging Receptor SR-BI
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-P **不适用于:** Flow Cyt or ICC/IF
种属反应性	**与反应:** Mouse, Rat, Human **预测可用于:** Sheep
免疫原	Synthetic peptide within Human Scavenging Receptor SR-BI aa 50-150 (N terminal). The exact sequence is proprietary. Database link: **Q8WTV0**
阳性对照	WB: Mouse liver tissue lysate. IHC-P: Human liver tissue.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号	EP1556Y
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab52629于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (2)	1/1000 - 1/2000. Detects a band of approximately 80 kDa.
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

应用说明 Is unsuitable for Flow Cyt or ICC/IF.

靶标

功能 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.

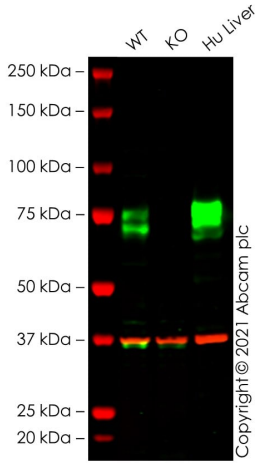
组织特异性 Widely expressed.

序列相似性 Belongs to the CD36 family.

翻译后修饰 N-glycosylated.

细胞定位 Cell membrane. Membrane > caveola. Predominantly localized to cholesterol and sphingomyelin-enriched domains within the plasma membrane, called caveolae.

图片



Western blot - Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab52629)

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

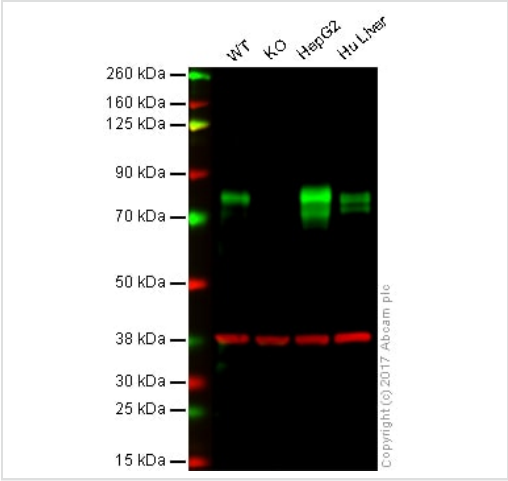
Lane 1 : Wild-type HEK-293T cell lysate
Lane 2 : SCARB1 knockout HEK-293T cell lysate
Lane 3 : Human Liver cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Observed band size: 70,75 kDa

False colour image of Western blot: Anti-Scavenging Receptor SR-BI antibody [EP1556Y] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab52629 was shown to bind specifically to Scavenging Receptor SR-BI. A band was observed at 70/75 kDa in wild-type HEK-293T cell lysates with no signal observed at this size in SCARB1 knockout cell line **ab282646** (knockout cell lysate **ab283046**). 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-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.

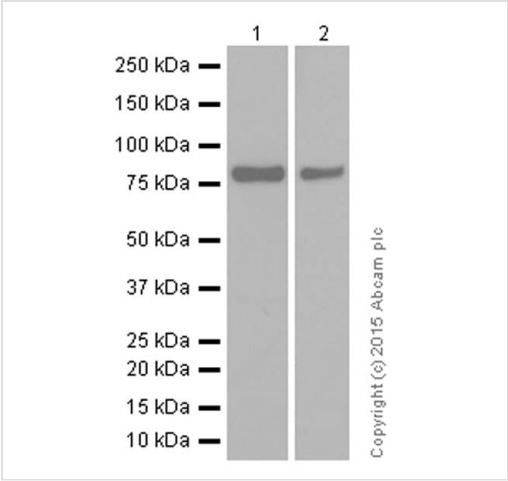


Western blot - Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab52629)

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.



Western blot - Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab52629)

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

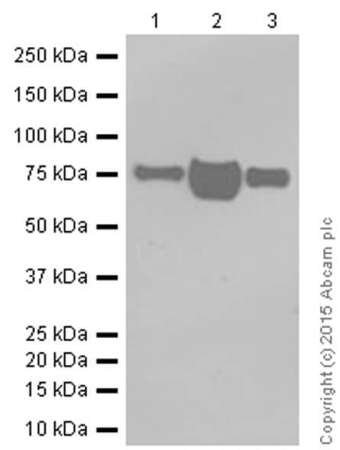
Lane 1 : Mouse liver lysate
Lane 2 : Rat liver lysate

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



Western blot - Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab52629)

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

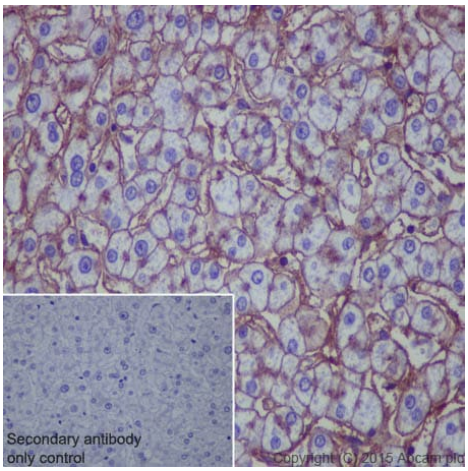
Lane 1 : Human fetal liver lysate
Lane 2 : HepG2 lysate
Lane 3 : PC-3 cell lysate

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

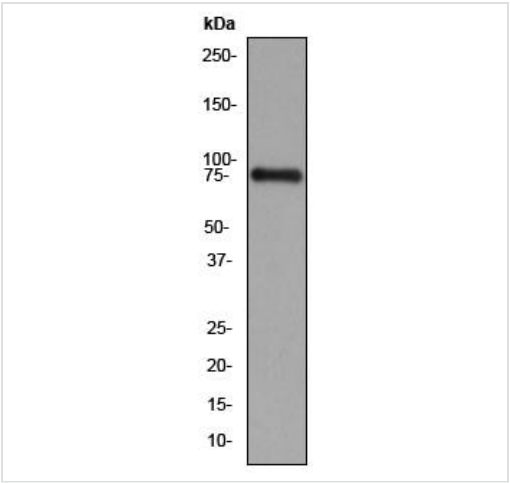
Observed band size: 80 kDa

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab52629)

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 perfomed 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.



Western blot - Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab52629)

Anti-Scavenging 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

Western blot - Anti-Scavenging Receptor SR-BI antibody [EP1556Y] (ab52629)

THP1 cells were incubated at 37ºC 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.

Anti-Scavenging Receptor SR-BI antibody

[EP1556Y] (ab52629)

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