

Product datasheet

Anti-SLC27A4 / FATP4 antibody [EPR17319-26] ab200353

KO **VALIDATED** Recombinant **RabMAb**

[9 References](#) [7 Images](#)

Overview

Product name	Anti-SLC27A4 / FATP4 antibody [EPR17319-26]
Description	Rabbit monoclonal [EPR17319-26] to SLC27A4 / FATP4
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, HepG2, HEK293, C6, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates; Human testis, fetal brain, fetal heart and fetal kidney lysates; Mouse brain, heart, kidney and spleen lysates; Rat brain, kidney and spleen lysates. ICC/IF: HeLa cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR17319-26

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab200353 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
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		1/1000. Detects a band of approximately 72 kDa (predicted molecular weight: 72 kDa).

Target

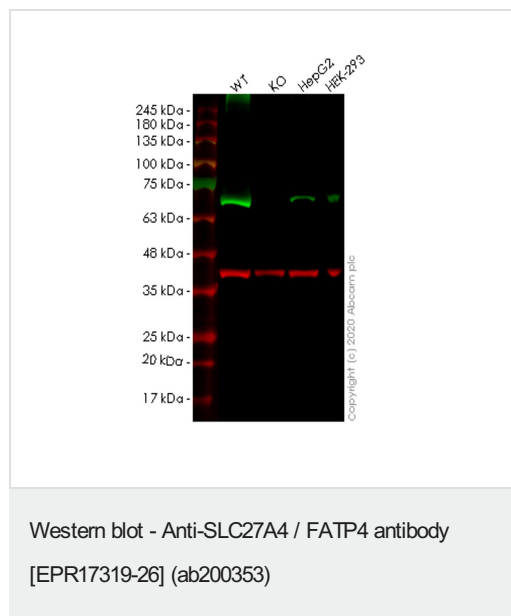
Relevance

SLC27A4 / FATP4 plays a role in the transport of long chain fatty acids across the plasma membrane. It has acyl-coA ligase activity for long chain and very long chain fatty acids. Deletion of the SLC27A4 gene results in embryonic lethality, which is attributed to the need for fat absorption across the visceral endoderm early in embryonic development. Expression of FAT4P in the intestinal lining is thought to be altered in response to dietary fat.

Cellular localization

Cell Membrane

Images



All lanes : Anti-SLC27A4 / FATP4 antibody [EPR17319-26] (ab200353) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate

Lane 2 : SLC27A4 knockout HEK293T cell lysate

Lane 3 : HepG2 cell lysate

Lane 4 : HEK-293 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

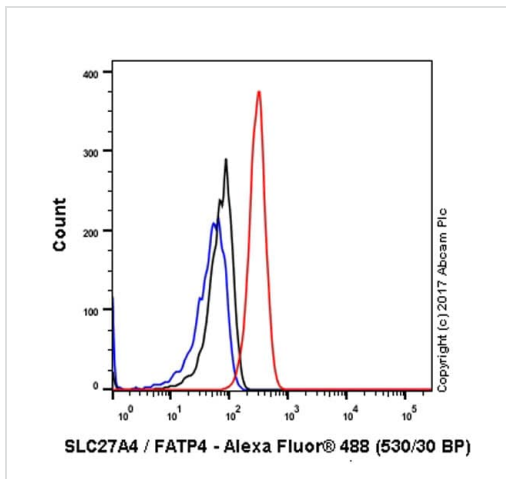
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 72 kDa

Observed band size: 72 kDa

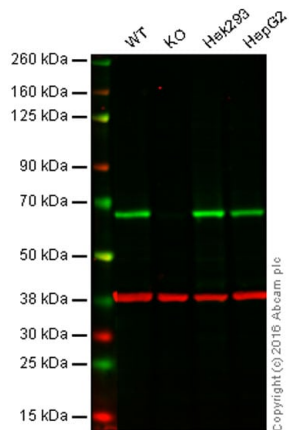
Lanes 1-4: Merged signal (red and green). Green - ab200353 observed at 72 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab200353 Anti-SLC27A4 / FATP4 antibody [EPR17319-26] was shown to specifically react with SLC27A4 / FATP4 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266114** (knockout cell lysate **ab257677**) was used. Wild-type and SLC27A4 / FATP4 knockout samples were subjected to SDS-PAGE. ab200353 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-SLC27A4 / FATP4 antibody [EPR17319-26] (ab200353)

Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling SLC27A4 / FATP4 with purified ab200353 at 1/250 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.



Western blot - Anti-SLC27A4 / FATP4 antibody [EPR17319-26] (ab200353)

Lane 1: Wild-type HAP1 cell lysate (20 µg)

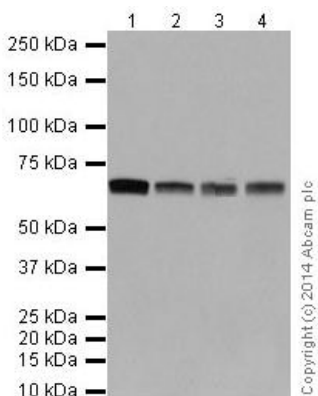
Lane 2: SLC27A/FATP4 knockout HAP1 cell lysate (20 µg)

Lane 3: HEK293 cell lysate (20 µg)

Lane 4: HepG2 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab200353 observed at 70 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab200353 was shown to specifically react with SLC27A4/FATP4 when SLC27A4/FATP4 knockout samples were used. Wild-type and SLC27A4/FATP4 knockout samples were subjected to SDS-PAGE. ab200353 and **ab8245** (loading control to GAPDH) were diluted 1/1000 and 1/10 000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-SLC27A4 / FATP4 antibody [EPR17319-26] (ab200353)

All lanes : Anti-SLC27A4 / FATP4 antibody [EPR17319-26] (ab200353) at 1/5000 dilution

Lane 1 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate

Lane 2 : HepG2 (Human liver hepatocellular carcinoma) whole cell lysate

Lane 3 : HEK293 (Human embryonic kidney) whole cell lysate

Lane 4 : Human testis lysate

Lysates/proteins at 20 µg per lane.

Secondary

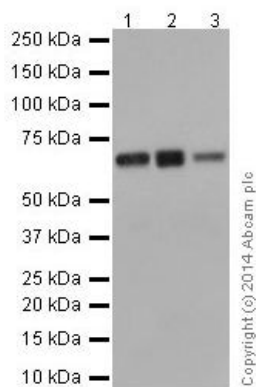
All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 72 kDa

Observed band size: 72 kDa

Exposure time: 1 minute

Blocking/dilution buffer: 5% NFDN/TBST.



Western blot - Anti-SLC27A4 / FATP4 antibody [EPR17319-26] (ab200353)

All lanes : Anti-SLC27A4 / FATP4 antibody [EPR17319-26] (ab200353) at 1/1000 dilution

Lane 1 : Human fetal brain lysate

Lane 2 : Human fetal heart lysate

Lane 3 : Human fetal kidney lysate

Lysates/proteins at 10 µg per lane.

Secondary

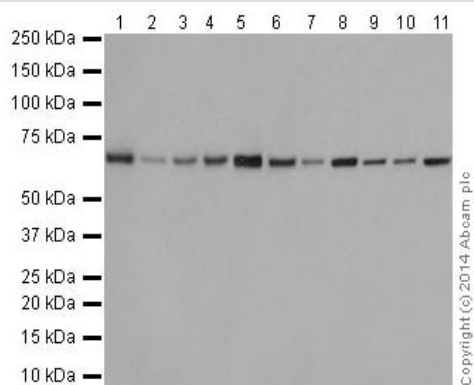
All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 72 kDa

Observed band size: 72 kDa

Exposure time: 30 seconds

Blocking/dilution buffer: 5% NFDM/TBST.



Western blot - Anti-SLC27A4 / FATP4 antibody [EPR17319-26] (ab200353)

All lanes : Anti-SLC27A4 / FATP4 antibody [EPR17319-26] (ab200353) at 1/1000 dilution

Lane 1 : Mouse brain lysate

Lane 2 : Mouse heart lysate

Lane 3 : Mouse kidney lysate

Lane 4 : Mouse spleen lysate

Lane 5 : Rat brain lysate

Lane 6 : Rat kidney lysate

Lane 7 : Rat spleen lysate

Lane 8 : C6 (Rat glial tumor cells) whole cell lysate

Lane 9 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate

Lane 10 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate

Lane 11 : NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 72 kDa

Observed band size: 72 kDa

Exposure time: 5 seconds

Blocking/dilution buffer: 5% NFD/MTBST.

Why choose a recombinant antibody?



- Research with confidence**
Consistent and reproducible results
- Long-term and scalable supply**
Recombinant technology
- Success from the first experiment**
Confirmed specificity
- Ethical standards compliant**
Animal-free production

Anti-SLC27A4 / FATP4 antibody [EPR17319-26]
(ab200353)

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

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