

Product datasheet

Human SLC27A4 (FATP4) knockout HEK-293T cell lysate ab257677

3 Images

Overview

| | |
|-----------------------------|--|
| Product name | Human SLC27A4 (FATP4) knockout HEK-293T cell lysate |
| Product overview | Knockout cell lysate achieved by CRISPR/Cas9. |
| Parental Cell Line | HEK293T |
| Organism | Human |
| Mutation description | Knockout achieved by using CRISPR/Cas9, Homozygous: 14 bp deletion in exon 2. |
| Passage number | <20 |
| Knockout validation | Sanger Sequencing, Western Blot (WB) |
| Reconstitution notes | To use as WB control, resuspend the lyophilizate in 50 µL of LDS* Sample Buffer to have a final concentration of 2 mg/ml. For reducing conditions, we recommend a final concentration of 0.1 M DTT. <i>*Usage of SDS sample buffer is not recommended with these lyophilized lysates.</i> |

Notes

Lysate preparation: Our lysates are made using RIPA buffer to which we add a protease inhibitor cocktail and phosphatase inhibitor cocktail (ratio: 300:100:10). *This means that the protein of interest is denatured.* If you require a native form of the protein please use the live cell version - found [here](#). Please refer to our lysis protocol for further details on how our lysates are prepared.

User storage instructions: Lyophilizate may be stored at 4°C. After reconstitution, store at -20°C for short-term storage or -80°C for long-term storage.

Access thousands of knockout cell lysates, generated from commonly used cancer cell lines.

[See here for more information on knockout cell lysates.](#)

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It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

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Tested applications **Suitable for:** WB

Properties

Storage instructions Store at -80°C. Please refer to protocols.

| Components | 1 kit |
|---|-----------|
| ab260318 - Human SLC27A4 knockout HEK293T cell lysate | 1 x 100µg |
| ab255553 - Human wild-type HEK293T cell lysate | 1 x 100µg |

Cell type epithelial

STR Analysis Amelogenin X D5S818: 8, 9 D13S317: 12, 14 D7S820: 11 D16S539: 9, 13 vWA: 16, 19 TH01: 7, 9.3 TPOX: 11 CSF1PO: 11, 12

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

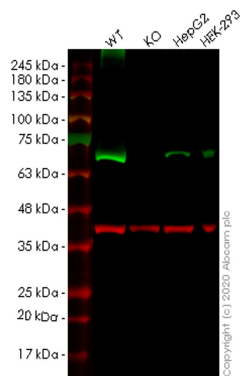
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab257677 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 | | Use at an assay dependent concentration. Predicted molecular weight: 72 kDa. |

Images



Western blot - Human SLC27A4 knockout HEK293T cell lysate (ab257677)

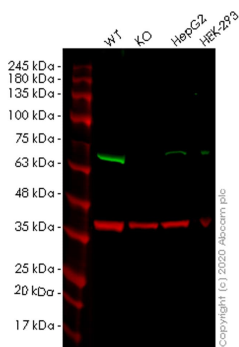
Lane 1: Wild-type HEK293T cell lysate (20 ug)

Lane 2: SLC27A4 knockout HEK293T cell lysate (20 ug)

Lane 3: HepG2 cell lysate (20 ug)

Lane 4: HEK-293 cell lysate (20 ug)

ab200353 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.



Western blot - Human SLC27A4 knockout HEK293T cell lysate (ab257677)

Lane 1: Wild-type HEK293T cell lysate (20 ug)

Lane 2: SLC27A4 knockout HEK293T cell lysate (20 ug)

Lane 3: HepG2 cell lysate (20 ug)

Lane 4: HEK-293 cell lysate (20 ug)

ab199719 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. **ab199719** 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.

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Mut  GCCAGCCGCCAGATCCCAAGTAGAGGA-----CCCACCTGGGTCCAGGGCA
      |||
WT   GCCAGCCGCCAGATCCCAAGTAGAGGAACAACAGGGAGAATCCCACCTGGGTCCAGGGCA
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Homozygous: 14 bp deletion in exon 2

Sanger Sequencing - Human SLC27A4 knockout
HEK293T cell lysate (ab257677)

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