abcam

Product datasheet

Anti-SLC16A3/MCT 4 antibody - C-terminal ab190497

2 Images

Overview

Product name	Anti-SLC16A3/MCT 4 antibody - C-terminal
Description	Rabbit polyclonal to SLC16A3/MCT 4 - C-terminal
Host species	Rabbit
Tested applications	**Suitable for:** IP, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Rhesus monkey, Gorilla
Immunogen	Synthetic peptide within Human SLC16A3/MCT 4 aa 400-450 (C terminal). The exact sequence is proprietary. (NP_001193879.1) Sequence: L ILLLGNFFCI RKKPKEPQPE VAAAEEEKLH KPPADSGVDL REVEHFLKAE Database link: O15427 Run BLAST with Run BLAST with
Positive control	HeLa, Jurkat, 293T whole cell lysate
General notes	Protein previously labeled as SLC16A3. Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough. Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility. We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee. In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for. We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee. Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee. Please check that this product meets your needs before purchasing. If you have any questions,

special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

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 Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate pH: 7 to 8
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab190497** in the following tested applications.

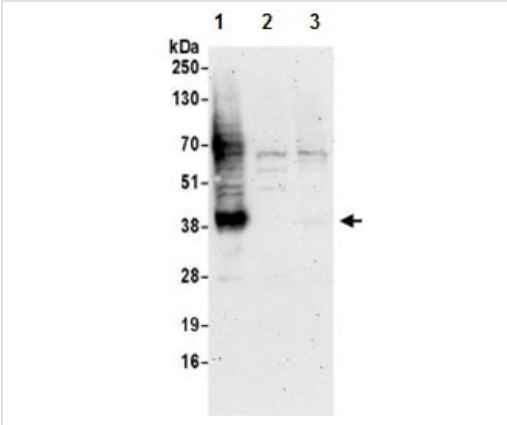
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at 2-10 µg/mg of lysate.
WB		1/2000 - 1/10000. Predicted molecular weight: 49 kDa.

Target

Function	Proton-linked monocarboxylate transporter. Catalyzes the rapid transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, branched-chain oxo acids derived from leucine, valine and isoleucine, and the ketone bodies acetoacetate, beta-hydroxybutyrate and acetate.
Tissue specificity	Highly expressed in skeletal muscle.
Sequence similarities	Belongs to the major facilitator superfamily. Monocarboxylate porter (TC 2.A.1.13) family.
Cellular localization	Cell membrane.
Form	Lactic acid and pyruvate transport across plasma membranes is catalyzed by members of the proton linked monocarboxylate transporter (MCT) family, which has been designated solute carrier family 16. Each MCT appears to have slightly different substrate and inhibitor specificities and transport kinetics, which are related to the metabolic requirements of the tissues in which it is found. The MCTs, which include MCT1 and MCT2, are characterized by 12 predicted transmembrane domains.

Images



Western blot - Anti-SLC16A3/MCT 4 antibody - C-terminal (ab190497)

All lanes : Anti-SLC16A3/MCT 4 antibody - C-terminal (ab190497) at 0.1 µg/ml

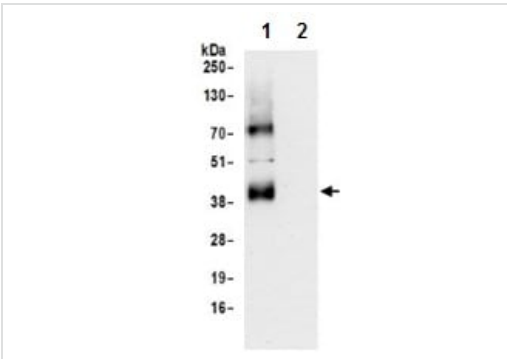
Lane 1 : HeLa cell lysate
Lane 2 : 293T cell lysate
Lane 3 : Jurkat cell lysate

Lysates/proteins at 50 µg per lane.

Developed using the ECL technique.

Predicted band size: 49 kDa

Exposure time: 3 minutes



Immunoprecipitation - Anti-SLC16A3/MCT 4 antibody - C-terminal (ab190497)

Immunoprecipitation analysis of HeLa cell lysate (1 mg per IP reaction; 20% of IP loaded) labeling SLC16A3/MCT 4 using ab190497 at 6 µg per reaction (lane 1). A Control IgG was used in lane 2. For blotting immunoprecipitated SLC16A3, ab190497 was used at 0.4 µg/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.

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