abcam

Product datasheet

Anti-Monocarboxylic acid transporter 1 antibody ab85021

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概述

产品名称	Anti-Monocarboxylic acid transporter 1**抗体**
描述	**兔多克隆抗体**to Monocarboxylic acid transporter 1
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-P, ICC/IF
种属反应性	**与反应:** Human **预测可用于:** Orangutan
免疫原	Synthetic peptide conjugated to KLH derived from within residues 450 to the C-terminus of Human Monocarboxylic acid transporter 1.**参阅**Abcam**的专有抗源政策**(Peptide available as ab97985.)
阳性对照	This antibody gave a positive signal in Human Skeletal Muscle tissue lysate.

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 or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab85021** in the following tested applications.

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

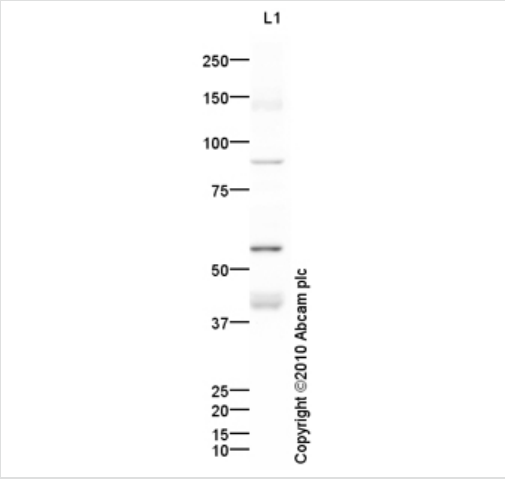
应用	Ab评论	说明
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa).

应用	Ab评论	说明
IHC-P	★★★★★	Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF	★★★★★	Use a concentration of 5 µg/ml.

靶标

功能	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.
组织特异性	Widely expressed in normal and in cancer cells.
疾病相关	Symptomatic deficiency in lactate transport Familial hyperinsulinemic hypoglycemia 7
序列相似性	Belongs to the major facilitator superfamily. Monocarboxylate porter (TC 2.A.1.13) family.
细胞定位	Cell membrane.

图片



Western blot - Anti-Monocarboxylic acid transporter 1 antibody (ab85021)

Anti-Monocarboxylic acid transporter 1 antibody (ab85021) at 1 µg/ml + Human skeletal muscle tissue lysate - total protein (ab29330) at 10 µg

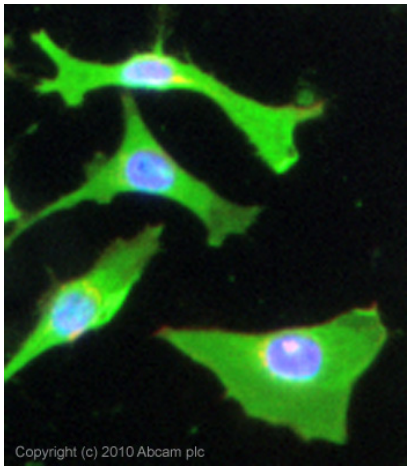
Secondary
Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

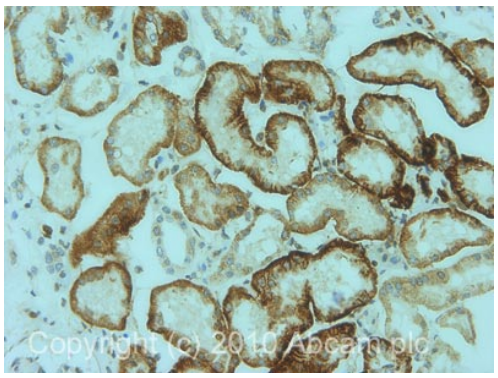
Predicted band size: 54 kDa
Observed band size: 54 kDa
Additional bands at: 40 kDa, 89 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 2 minutes



Immunocytochemistry/ Immunofluorescence - Anti-Monocarboxylic acid transporter 1 antibody (ab85021)

ICC/IF image of ab85021 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab85021, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in 4% PFA fixed (10 min) Hek293, HepG2 and MCF7 cells at 5µg/ml, and in 100% methanol fixed (5 min) HeLa, Hek293, HepG2 and MCF7 cells at 5µg/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Monocarboxylic acid transporter 1 antibody (ab85021)

IHC image of Monocarboxylic acid transporter 1 staining in human normal kidney formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab85021, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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