abcam

Product datasheet

Anti-Mitochondrial dicarboxylate carrier antibody ab32632

画像数 2

製品の概要

製品名	Anti-Mitochondrial dicarboxylate carrier antibody
製品の詳細	Rabbit polyclonal to Mitochondrial dicarboxylate carrier
由来種	Rabbit
アプリケーション	**適用あり:** WB, ICC/IF
種交差性	**交差種:** Mouse
免疫原	Synthetic peptide: LRKHFGIKVP TT, corresponding to C terminal amino acids 276-287 of Mouse Mitochondrial dicarboxylate carrier, extracted from mouse fibroblast. Run BLAST with ExPASy Run BLAST with NCBI
ポジティブ・コントロール	WB: 3T3-L1 (Mouse embryonic fibroblast cell line) whole cell lysate differentiated to adipocytes ; Mouse white adipose ; Mouse Liver ; Mouse Kidney ICC/IF: C2C12 (Mouse myoblast cell line) whole cell lysate
特記事項	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. 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, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Preservative: 0.05% Sodium azide Constituent: Whole serum
精製度	Whole antiserum
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab32632の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/500. Predicted molecular weight: 31 kDa.
ICC/IF		1/50 - 1/500.

ターゲット情報

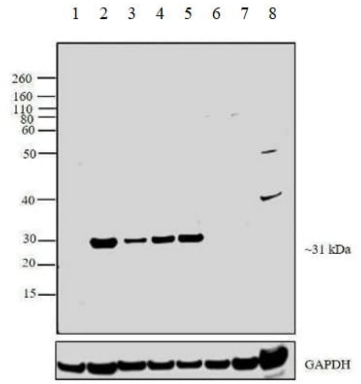
関連性

The mitochondrial dicarboxylate carrier protein (mDIC) belongs to superfamily of mitochondrial transporters. It has been demonstrated that the expression of mDIC leads to hyperpolarization of the mitochondria, as well as succinate uptake by the mitochondria. It is highly expressed in adipose tissue, where its expression is downregulated by insulin and upregulated by free fatty acids. mDIC is also thought to play a role in glyceroneogenesis.

細胞内局在

Mitochondrion; mitochondrial inner membrane; multi pass membrane protein.

画像



Western blot - Anti-Mitochondrial dicarboxylate carrier antibody (ab32632)

All lanes : Anti-Mitochondrial dicarboxylate carrier antibody (ab32632) at 1/500 dilution

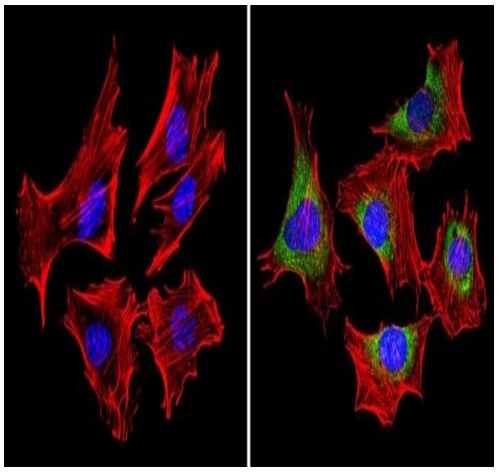
Lane 1 : 3T3-L1 (Mouse embryonic fibroblast cell line) whole cell lysate
Lane 2 : 3T3-L1 (Mouse embryonic fibroblast cell line) whole cell lysate differentiated to adipocytes
Lane 3 : Mouse white adipose
Lane 4 : Mouse Liver
Lane 5 : Mouse Kidney
Lane 6 : Mouse Spleen
Lane 7 : Mouse Brain
Lane 8 : Mouse Skeletal Muscle

Lysates/proteins at 30 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate at 1/4000 dilution

Predicted band size: 31 kDa
Additional bands at: ~31 kDa. We are unsure as to the identity of these extra bands.

Antibody specificity demonstrated by detection of differential basal expression of the target across tissue models owing to their inherent genetic constitution. Mitochondrial dicarboxylate carrier was observed in Mouse White Adipose, Mouse Liver, Mouse Kidney compared to other tissue extracts tested and was also enhanced in 3T3-L1 (Mouse embryonic fibroblast cell line) whole cell lysate after differentiating it to adipocytes.



Immunocytochemistry/ Immunofluorescence - Anti-Mitochondrial dicarboxylate carrier antibody (ab32632)

Immunofluorescent analysis of Mitochondrial dicarboxylate carrier (Green) labeling C2C12 (Mouse myoblast cell line) whole cell lysate. The cells were formalin-fixed and permeabilized with 0.1% Triton™ X-100 in TBS for 5-10 minutes, and blocked with 3% BSA-PBS for 30 minutes at room temperature. The cells were labeled with ab32632 at a dilution of 1/100 in 3% BSA-PBS and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. Nuclei (Blue) were stained with DAPI. F-actin (Red) was stained with Alexa Fluor® 554. Left image is a no primary antibody control. The images were captured at 60X magnification.

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