SLC25A29 (A-14): sc-132092



The Power to Question

BACKGROUND

SLC25A29 (solute carrier family 25 member 29), also known as CACL (mitochondrial carnitine/acylcarnitine translocase- (SLC25A20-) like) or C14orf69, is a 303 amino acid multi-pass membrane protein that belongs to the the SLC25 family of mitochondrial carriers that are responsible for transporting metabolites across the inner mitochondrial membrane. Expressed predominantly in tissues that use fatty acids as fuels (ie. liver and heart), SLC25A29 contains three Solcar repeats, localizes to the mitochondrion inner membrane and is believed to participate in palmitoylcarnitine transport. This suggests that SLC25A29 plays an important role in fatty acid catabolism. In addition, the expression of SLC25A29 is induced by various stresses including fasting and partial hepatectomy, implicating SLC25A29 in the body's adaptive re-sponse of a change in the energy source from glucose to free fatty acids.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SLC25A29 (human) mapping to 14q32.2; Slc25a29 (mouse) mapping to 12 F1.

SOURCE

SLC25A29 (A-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SLC25A29 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-132092 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SLC25A29 (A-14) is recommended for detection of SLC25A29 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other SLC25 family members.

SLC25A29 (A-14) is also recommended for detection of SLC25A29 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for SLC25A29 siRNA (h): sc-92341, SLC25A29 siRNA (m): sc-153509, SLC25A29 shRNA Plasmid (h): sc-92341-SH, SLC25A29 shRNA Plasmid (m): sc-153509-SH, SLC25A29 shRNA (h) Lentiviral Particles: sc-92341-V and SLC25A29 shRNA (m) Lentiviral Particles: sc-153509-V.

Molecular Weight of SLC25A29: 32 kDa.

Positive Controls: c4 whole cell lysate: sc-364186 or Jurkat whole cell lysate: sc-2204.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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