SLC25A48 (S-18): sc-247547



The Power to Question

BACKGROUND

Mitochondrial inner membrane proteins are responsible for the transport of metabolites across the mitochondrial membrane. SLC25A48 (solute carrier family 25, member 48), also known as HDMCP, is a 311 amino acid multi-pass membrane protein that localizes to the mitochondria. Belonging to the mitochondrial carrier family, SLC25A48 contains three solcar repeats. SLC25A48 exists a three alternatively spliced isoforms and is encoded by a gene located on human chromosome 5q31.1. Chromosome 5 contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm, or of chromosome 5 altogether, is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SLC25A48 (human) mapping to 5g31.1.

SOURCE

SLC25A48 (S-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SLC25A48 of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-247547 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SLC25A48 (S-18) is recommended for detection of SLC25A48 of 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).

Suitable for use as control antibody for SLC25A48 siRNA (h): sc-91930, SLC25A48 shRNA Plasmid (h): sc-91930-SH and SLC25A48 shRNA (h) Lentiviral Particles: sc-91930-V.

Molecular Weight of SLC25A48 isoforms: 33/31/17 kDa.

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) with UltraCruz™ Mounting Medium: sc-24941.

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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