

SLC25A38 (N-16): sc-100152

BACKGROUND

SLC25A38 (solute carrier family 25, member 38) is a 304 amino acid multi-pass membrane protein that localizes to the inner mitochondrial membrane and contains three solcar repeats. SLC25A38 is thought to function as a mitochondrial carrier protein that is encoded by a gene which maps to human chromosome 3. Chromosome 3 houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth disease are a few of the numerous genetic diseases associated with chromosome 3. Defects in the gene encoding SLC25A38 are the cause of nonsyndromic autosomal recessive congenital sideroblastic anemia.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SLC25A38 (human) mapping to 3p22.1; Slc25a38 (mouse) mapping to 9 F4.

STORAGE

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

SOURCE

SLC25A38 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SLC25A38 of human origin.

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-100152 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SLC25A38 (N-16) is recommended for detection of SLC25A38 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 SLC25A family members.

Suitable for use as control antibody for SLC25A38 siRNA (h): sc-78287, SLC25A38 siRNA (m): sc-153515, SLC25A38 shRNA Plasmid (h): sc-78287-SH, SLC25A38 shRNA Plasmid (m): sc-153515-SH, SLC25A38 shRNA (h) Lentiviral Particles: sc-78287-V and SLC25A38 shRNA (m) Lentiviral Particles: sc-153515-V.

Molecular Weight of SLC25A38: 34 kDa.

Positive Controls: 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.

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.