

SLC25A43 (K-13): sc-138613

BACKGROUND

SLC25A43 (solute carrier family 25, member 43) is a 341 amino acid multi-pass membrane protein that belongs to the SLC25 family of mitochondrial carriers. A solute carrier protein, SLC25A43 is found in the inner membrane of the mitochondria where it has a possible role in cell metabolism. Expression of SLC25A43 is found in almost all rat tissues, with highest in brain coronal sections containing olfactory bulb and cerebral cortex, followed by adrenal gland and skeletal muscle. Existing as two alternatively spliced isoforms, the SLC25A43 gene is conserved in dog, mouse, chicken and zebrafish, and maps to human chromosome Xq24. The mouse SLC25A43 gene also maps to chromosome X. Chromosome X consists of about 153 million base pairs and nearly 1,000 genes. There are a number of conditions related to an unusual number and combination of sex chromosomes being inherited. More than one copy of the X chromosome with a Y chromosome causes Klinefelter's syndrome. Color blindness, hemophilia, and Duchenne muscular dystrophy are well known X chromosome-linked conditions which affect males more frequently as males carry a single X chromosome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SLC25A43 (human) mapping to Xq24; Slc25a43 (mouse) mapping to X A3.3.

SOURCE

SLC25A43 (K-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SLC25A43 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-138613 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SLC25A43 (K-13) is recommended for detection of SLC25A43 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.

SLC25A43 (K-13) is also recommended for detection of SLC25A43 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for SLC25A43 siRNA (h): sc-90895, SLC25A43 siRNA (m): sc-153519, SLC25A43 shRNA Plasmid (h): sc-90895-SH, SLC25A43 shRNA Plasmid (m): sc-153519-SH, SLC25A43 shRNA (h) Lentiviral Particles: sc-90895-V and SLC25A43 shRNA (m) Lentiviral Particles: sc-153519-V.

Molecular Weight of SLC25A43 isoforms: 38/32 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) 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.