

SLC43A2 (D-13): sc-162211

BACKGROUND

SLC43A2 (solute carrier family 43, member 2), also known as LAT4 or PP7664, is a 569 amino acid multi-pass membrane protein that belongs to the SLC43A solute transporter family. Expressed in a variety of tissues with highest expression in kidney and placenta, SLC43A2 functions as a sodium- and chloride-independent transport channel protein that facilitates the transport of large, neutral amino acids across membranes. Overexpression of SLC43A2 is associated with head and neck carcinomas, implicating SLC43A2 as a tumor-associated protein. SLC43A2 may be glycosylated and shares 91% sequence similarity with its mouse counterpart, suggesting a conserved function between species. The gene encoding SLC43A2 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

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CHROMOSOMAL LOCATION

Genetic locus: SLC43A2 (human) mapping to 17p13.3; Slc43a2 (mouse) mapping to 11 B5.

SOURCE

SLC43A2 (D-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SLC43A2 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-162211 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SLC43A2 (D-13) is recommended for detection of SLC43A2 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 SLC43A1 or SLC43A3.

SLC43A2 (D-13) is also recommended for detection of SLC43A2 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for SLC43A2 siRNA (h): sc-94194, SLC43A2 siRNA (m): sc-153563, SLC43A2 shRNA Plasmid (h): sc-94194-SH, SLC43A2 shRNA Plasmid (m): sc-153563-SH, SLC43A2 shRNA (h) Lentiviral Particles: sc-94194-V and SLC43A2 shRNA (m) Lentiviral Particles: sc-153563-V.

Molecular Weight of SLC43A2 isoforms: 63/53 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.