

Slc5a11 (D-14): sc-165500

BACKGROUND

SGLT-6, also known as Slc5a11 (solute carrier family 5 (sodium/glucose cotransporter), member 11) KST1, SLGTX or SMIT2, is a 675 amino acid multi-pass membrane protein that belongs to the sodium/solute symporter family of transport proteins. Expressed at high levels in kidney, heart, placenta, liver and skeletal muscle, SGLT-6 is involved in the co-transport of myo-inositol with sodium, specifically facilitating the transport of two myo-inositols per sodium ion. In addition to its role in sodium transport, SGLT-6 also participates in the transport of glucose and xylose and may function to induce Pcd-1-dependent cell apoptosis. The gene encoding SGLT-6 is an autoimmune modifier in systemic lupus erythematosus (SLE), suggesting an involvement for SGLT-6 in the pathogenesis of SLE. Multiple isoforms of SGLT-6 exist due to alternative splicing events.

REFERENCES

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STORAGE

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

CHROMOSOMAL LOCATION

Genetic locus: Slc5a11 (mouse) mapping to 7 F3.

SOURCE

Slc5a11 (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of Slc5a11 of mouse 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-165500 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Slc5a11 (D-14) is recommended for detection of Slc5a11 of mouse and rat 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 Slc5a family members.

Suitable for use as control antibody for Slc5a11 siRNA (m): sc-153571, Slc5a11 shRNA Plasmid (m): sc-153571-SH and Slc5a11 shRNA (m) Lentiviral Particles: sc-153571-V.

Molecular Weight of Slc5a11: 74 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.

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.