SGLT-6 (P-14): sc-165476



The Power to Question

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 multipass 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 Pdcd-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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CHROMOSOMAL LOCATION

Genetic locus: SLC5A11 (human) mapping to 16p12.1; Slc5a11 (mouse) mapping to 7 F3

SOURCE

SGLT-6 (P-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of SGLT-6 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 lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-165476 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SGLT-6 (P-14) is recommended for detection of SGLT-6 of human origin and 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 SGLT family members.

SGLT-6 (P-14) is also recommended for detection of SGLT-6 in additional species, including bovine.

Suitable for use as control antibody for SGLT-6 siRNA (h): sc-93032, Slc5a11 siRNA (m): sc-153571, SGLT-6 shRNA Plasmid (h): sc-93032-SH, Slc5a11 shRNA Plasmid (m): sc-153571-SH, SGLT-6 shRNA (h) Lentiviral Particles: sc-93032-V and Slc5a11 shRNA (m) Lentiviral Particles: sc-153571-V.

Molecular Weight of SGLT-6: 74 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) 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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