

# SGLT-6 (D-22): sc-133997

## BACKGROUND

SGLT-6, also known as SLC5A11 (solute carrier family 5 (sodium/glucose co-transporter), 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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## CHROMOSOMAL LOCATION

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

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## SOURCE

SGLT-6 (D-22) is an affinity purified rabbit polyclonal antibody raised against synthetic SGLT-6 peptide of human origin.

## PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## APPLICATIONS

SGLT-6 (D-22) 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

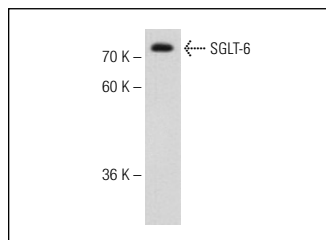
Molecular Weight of SGLT-6: 74 kDa.

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 goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

## DATA



SGLT-6 (D-22): sc-133997. Western blot analysis of SGLT-6 expression in Jurkat whole cell lysate.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.