

SLC35A2 (C-16): sc-82031

BACKGROUND

SLC35A2 (solute carrier family 35 (UDP-galactose transporter), member A2), also known as UGALT, UGT or UGTL, is a 396 amino acid multi-pass membrane protein that localizes to the Golgi apparatus and belongs to the nucleotide sugar transporter family. Expressed as two alternatively spliced isoforms, designated UGT1 and UGT2, SLC35A2 functions to transport nucleotide sugars from the cytosol to Golgi vesicles. The gene encoding SLC35A2 maps to human chromosome X, which contains nearly 153 million base pairs and houses over 1,000 genes. In conjunction with chromosome Y, chromosome X is responsible for sex determination, as an X and a Y chromosome lead to normal male development, while two copies of an X chromosome lead to normal female development. There are a number of conditions related to an abnormal number and combination of sex chromosomes, some of which include Turner's syndrome, color blindness, hemophilia and Duchenne muscular dystrophy.

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RESEARCH USE

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

CHROMOSOMAL LOCATION

Genetic locus: SLC35A2 (human) mapping to Xp11.23; Slc35a2 (mouse) mapping to X A1.1.

SOURCE

SLC35A2 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of SLC35A2 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-82031 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SLC35A2 (C-16) is recommended for detection of SLC35A2 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).

Suitable for use as control antibody for SLC35A2 siRNA (h): sc-76507, SLC35A2 siRNA (m): sc-76508, SLC35A2 shRNA Plasmid (h): sc-76507-SH, SLC35A2 shRNA Plasmid (m): sc-76508-SH, SLC35A2 shRNA (h) Lentiviral Particles: sc-76507-V and SLC35A2 shRNA (m) Lentiviral Particles: sc-76508-V.

Molecular Weight of SLC35A2: 41 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.