

UGTREL1 (N-15): sc-132863

BACKGROUND

UGTREL1 (UDP-galactose transporter related protein 1), also known as SLC35B1 (solute carrier family 35 member B1), is a 325 amino acid multi-pass membrane protein that belongs to the SLC35B subfamily of the nucleotide-sugar transporter (NST) family. Members of the NST family are transmembrane proteins that mediate the translocation of nucleotide-sugars from the cytosol to the interior lumen of the endoplasmic reticulum (ER) and the Golgi apparatus via an antiport mechanism, exchanging nucleoside monophosphates for nucleotide-sugars. This activity of NSTs is important for providing an available source of nucleotide-sugars for glycoconjugate synthesis. Localizing to the endoplasmic reticulum membrane, UGTREL1 functions as a sugar transporter and shows significant similarity to the yeast UDP-N-acetylglucosamine transporter.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SLC35B1 (human) mapping to 17q21.33; Slc35b1 (mouse) mapping to 11 D.

RESEARCH USE

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

SOURCE

UGTREL1 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of UGTREL1 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-132863 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

UGTREL1 (N-15) is recommended for detection of UGTREL1 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).

UGTREL1 (N-15) is also recommended for detection of UGTREL1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for UGTREL1 siRNA (h): sc-94212, UGTREL1 siRNA (m): sc-154909, UGTREL1 shRNA Plasmid (h): sc-94212-SH, UGTREL1 shRNA Plasmid (m): sc-154909-SH, UGTREL1 shRNA (h) Lentiviral Particles: sc-94212-V and UGTREL1 shRNA (m) Lentiviral Particles: sc-154909-V.

Molecular Weight of UGTREL1: 36 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.

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.