

SLC35D1 (Y-13): sc-165496

BACKGROUND

SLC35D1 (solute carrier family 35 (UDP-glucuronic acid/UDP-N-acetylgalactosamine dual transporter), member D1), also known as UGTREL7, is a 355 amino acid multi-pass membrane protein that belongs to the TPT transporter family and the SLC35D subfamily. Ubiquitously expressed, SLC35D1 transports both UDP-glucuronic acid (UDP-GlcA) and UDP-N-acetylgalactosamine (UDP-GalNAc) from the cytoplasm to into the endoplasmic reticulum lumen. SLC35D1 may also participate in glucuronidation and/or chondroitin sulfate biosynthesis. Defects in SLC35D1 are a cause of Schneckenbecken dysplasia (SCHBCKD). Schneckenbecken dysplasia is a rare, autosomal recessive, lethal short-limbed skeletal dysplasia with platyspondylia. The SLC35D1 gene is conserved in chimpanzee, bovine, mouse, rat, chicken, zebrafish, fruit fly, mosquito, *C. elegans*, *A. thaliana* and rice, and maps to human chromosome 1p31.3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SLC35D1 (human) mapping to 1p31.3; Slc35d1 (mouse) mapping to 4 C6.

RESEARCH USE

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

SOURCE

SLC35D1 (Y-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of SLC35D1 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-165496 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SLC35D1 (Y-13) is recommended for detection of SLC35D1 of mouse 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); non cross-reactive with SLC35D2 or SLC35D3.

SLC35D1 (Y-13) is also recommended for detection of SLC35D1 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for SLC35D1 siRNA (h): sc-88580, SLC35D1 siRNA (m): sc-153536, SLC35D1 shRNA Plasmid (h): sc-88580-SH, SLC35D1 shRNA Plasmid (m): sc-153536-SH, SLC35D1 shRNA (h) Lentiviral Particles: sc-88580-V and SLC35D1 shRNA (m) Lentiviral Particles: sc-153536-V.

Molecular Weight of SLC35D1: 39 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.