

SLC35B4 (F-13): sc-244172

BACKGROUND

SLC35B4 (solute carrier family 35, member B4) is a 331 amino acid multi-pass membrane protein that belongs to the nucleotide-sugar transporter family and the SLC35B subfamily. Glycosyltransferases, such as SLC35B4, transport nucleotide sugars from the cytoplasm where they are synthesized, to the Golgi apparatus where they are utilized in the synthesis of glycoproteins, glycolipids, and proteoglycans. SLC35B4 specifically mediates the transport of UDP-xylose (UDP-Xyl) and UDP-N-acetylglucosamine (UDP-GlcNAc) from cytosol into Golgi. The SLC35B4 gene contains ten exons and maps to human chromosome 7p33. Existing as three alternatively spliced isoforms, the SLC35B4 gene is conserved in chimpanzee, canine, bovine, mouse, rat, chicken, zebrafish, fruit fly, mosquito, *C. elegans*, *S. pombe*, *S. cerevisiae*, *K. lactis*, *M. grisea* and *N. crassa*.

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CHROMOSOMAL LOCATION

Genetic locus: SLC35B4 (human) mapping to 7q33; Slc35b4 (mouse) mapping to 6 A3.3.

SOURCE

SLC35B4 (F-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SLC35B4 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-244172 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SLC35B4 (F-13) is recommended for detection of SLC35B4 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).

SLC35B4 (F-13) is also recommended for detection of SLC35B4 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SLC35B4 siRNA (h): sc-89359, SLC35B4 siRNA (m): sc-153533, SLC35B4 shRNA Plasmid (h): sc-89359-SH, SLC35B4 shRNA Plasmid (m): sc-153533-SH, SLC35B4 shRNA (h) Lentiviral Particles: sc-89359-V and SLC35B4 shRNA (m) Lentiviral Particles: sc-153533-V.

Molecular Weight of SLC35B4 isoforms 1/2/3: 37/26/28 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.

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.