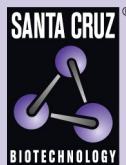


# SLC35A3 (N-15): sc-163381



The Power to Question

## BACKGROUND

SLC35A3 (solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3) is a 325 amino acid multi-pass membrane protein that belongs to the SLC35A 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 Golgi apparatus membrane, SLC35A3 functions as a monospecific UDP-GlcNAc transporter. In cattle, mutations in the gene encoding SLC35A3 can result in complex vertebral malformation (CMV), a lethal disorder that is defined by fused and misshapen vertebrae near the cervico-thoracic junction.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: SLC35A3 (human) mapping to 1p21.2; Slc35a3 (mouse) mapping to 3 G1.

## SOURCE

SLC35A3 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SLC35A3 of human origin.

## RESEARCH USE

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

## 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-163381 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

SLC35A3 (N-15) is recommended for detection of SLC35A3 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); non cross-reactive with other SLC35A family members.

SLC35A3 (N-15) is also recommended for detection of SLC35A3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SLC35A3 siRNA (h): sc-88392, SLC35A3 siRNA (m): sc-153529, SLC35A3 shRNA Plasmid (h): sc-88392-SH, SLC35A3 shRNA Plasmid (m): sc-153529-SH, SLC35A3 shRNA (h) Lentiviral Particles: sc-88392-V and SLC35A3 shRNA (m) Lentiviral Particles: sc-153529-V.

Molecular Weight of SLC35A3: 36 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.