

S35D1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9915b**Specification**

S35D1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [O9NTN3](#)**S35D1 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 23169

Other Names

UDP-glucuronic acid/UDP-N-acetylgalactosamine transporter, UDP-GlcA/UDP-GalNAc transporter, Solute carrier family 35 member D1, UDP-galactose transporter-related protein 7, UGTrel7, SLC35D1, KIAA0260, UGTREL7

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

S35D1 Antibody (C-term) Blocking Peptide - Protein Information

Name SLC35D1 {ECO:0000303|PubMed:31423530}

Synonyms KIAA0260, UGTREL7

Function

Antiporter that transports nucleotide sugars across the endoplasmic reticulum (ER) membrane in exchange for either their cognate nucleoside monophosphate or another nucleotide sugar (PubMed: [16965264](http://www.uniprot.org/citations/16965264), PubMed: [17599910](http://www.uniprot.org/citations/17599910), PubMed: [31423530](http://www.uniprot.org/citations/31423530)). Transports various UDP-sugars including UDP-N-acetyl-alpha-D-glucosamine (UDP-GlcNAc), UDP-N-acetyl-alpha-D-galactosamine (UDP-GalNAc) and UDP-alpha-D- glucuronate (UDP-GlcA), which are used by ER glucosyltransferases as sugar donors for the synthesis of sugar chains of glycoproteins, glycolipids and oligosaccharides (PubMed: [11322953](http://www.uniprot.org/citations/11322953), PubMed: [16965264](http://www.uniprot.org/citations/16965264), PubMed: [17599910](http://www.uniprot.org/citations/17599910), PubMed: [17952091](http://www.uniprot.org/citations/17952091), PubMed: [31423530](http://www.uniprot.org/citations/31423530)). May couple

UDP- GlcNAc or UDP-GalNAc efflux to UDP-GlcA influx into the ER lumen that in turn stimulates glucuronidation and subsequent excretion of endobiotics and xenobiotics (PubMed:16965264, PubMed:17599910). Plays a role in chondroitin sulfate biosynthesis, which is important for formation of cartilage extracellular matrix and normal skeletal development (By similarity).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

Ubiquitous..

S35D1 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

S35D1 Antibody (C-term) Blocking Peptide - Images**S35D1 Antibody (C-term) Blocking Peptide - Background**

Glycosylation of cellular glycoconjugates occurs in the endoplasmic reticulum (ER) and Golgi compartment, and requires transport of nucleotide sugars from the cytosol into the lumen of the ER and Golgi by specific transporters. The protein encoded by this gene resides in the ER, and transports both UDP-glucuronic acid (UDP-GlcA) and UDP-N-acetylgalactosamine (UDP-GalNAc) from the cytoplasm to the ER lumen. It may participate in glucuronidation and/or chondroitin sulfate biosynthesis.

S35D1 Antibody (C-term) Blocking Peptide - References

Furuichi, T., et al. J. Med. Genet. 46(8):562-568(2009)Hiraoka, S., et al. Nat. Med. 13(11):1363-1367(2007)Iyanagi, T. Int. Rev. Cytol. 260, 35-112 (2007)