

**SLC35D2 Antibody**  
**Catalog # ASC11391****Specification**

---

**SLC35D2 Antibody - Product Information**

Application	WB, ICC
Primary Accession	<a href="#">Q76EJ3</a>
Other Accession	<a href="#">NP_008932</a> , <a href="#">223029426</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	SLC35D2 antibody can be used for detection of SLC35D2 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunocytochemistry starting at 5 µg/mL.

**SLC35D2 Antibody - Additional Information**Gene ID **11046****Target/Specificity**

SLC35D2; At least two isoforms of SLC35D2 are known to exist; this antibody will recognize both isoforms. SLC35D2 antibody is predicted to not cross-react with SLC35D1 or SLC35D3.

**Reconstitution & Storage**

SLC35D2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

SLC35D2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**SLC35D2 Antibody - Protein Information****Name** SLC35D2 ([HGNC:20799](#))**Function**

Nucleotide sugar antiporter transporting UDP-N- acetylglucosamine (UDP-GlcNAc) and UDP-glucose (UDP-Glc) from the cytosol into the lumen of the Golgi in exchange of UMP. By supplying UDP-N-acetylglucosamine, a donor substrate to heparan sulfate synthases, probably takes part in the synthesis of these glycoconjugates.

**Cellular Location**

Golgi apparatus membrane; Multi-pass membrane protein

**Tissue Location**

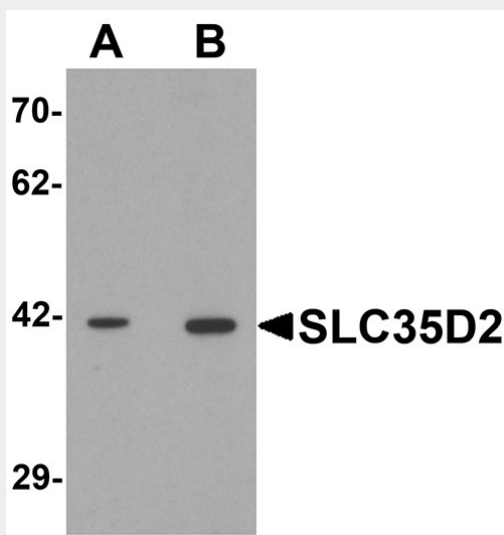
Highly expressed in heart, kidney, small intestine, placenta, lung and peripheral blood leukocyte. Weakly expressed in skeletal muscle and spleen. Not expressed in brain, colon and thymus

## SLC35D2 Antibody - Protocols

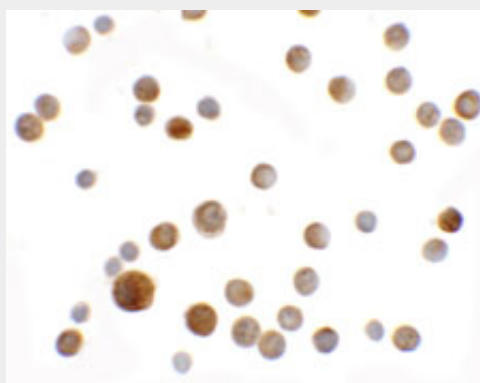
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## SLC35D2 Antibody - Images



Western blot analysis of SLC35D2 in HeLa cell lysate with SLC35D2 antibody at (A) 1 and (B) 2  $\mu\text{g/mL}$ .



Immunocytochemistry of SLC35D2 in HeLa cells with SLC35D2 antibody at 5  $\mu\text{g/mL}$ .

## SLC35D2 Antibody - Background

**SLC35D2 Antibody:** The solute carrier family SLC35 consists of at least 17 proteins that act as nucleotide sugar transporters localized to the Golgi apparatus and endoplasmic reticulum. The role of the ER-resident SLC family member SLC35D2 is to transport both UDP-glucuronic acid and

UDP-N-acetylgalactosamine. Its overexpression in transfected cells modulated cell surface heparin sulfate expression, suggesting that SLC35D2 is involved in heparin sulfate synthesis. SLC35D2-overexpressing cells also showed increased constitutive and hypotonic stress-stimulated release of UDP-GlcNAc, suggesting that SLC35D2 may be involved in UDP-sugar release and cell signaling.

### **SLC35D2 Antibody - References**

Ishida N and Kawakita M. Molecular physiology and pathology of the nucleotide sugar transporter family (SLC35). *Pflugers Arch.* 2004; 447:768-75.

Suda T, Kamiyama S, Suzuki M, et al. Molecular cloning and characterization of a human multisubstrate specific nucleotide-sugar transporter homologous to *Drosophila* fringe connection. *J. Biol. Chem.* 2004; 279:26469-74

Sesma JI, Esther Jr CR, Kreda SM, et al. Endoplasmic reticulum/Golgi nucleotide sugar transporters contribute to the cellular release of UDP-sugar signaling molecules. *J. Biol. Chem.* 2009; 284:12572-83.