

**SLC35D3 Antibody**  
**Catalog # ASC11392****Specification**

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**SLC35D3 Antibody - Product Information**

|                   |   |
|-------------------|---|
| Application       | WB, ICC, IF   |
| Primary Accession | <a href="#">Q5M8T2</a>  |
| Other Accession   | <a href="#">AAH87842</a> , <a href="#">56912198</a>   |
| Reactivity        | Human, Mouse  |
| Host              | Rabbit  |
| Clonality         | Polyclonal  |
| Isotype           | IgG   |
| Application Notes | SLC35D3 antibody can be used for detection of SLC35D3 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunocytochemistry starting at 2.5 µg/mL. For immunofluorescence start at 5 µg/mL. |

**SLC35D3 Antibody - Additional Information**Gene ID **340146****Target/Specificity**

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

**Reconstitution & Storage**

SLC35D3 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**

SLC35D3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**SLC35D3 Antibody - Protein Information**Name SLC35D3 ([HGNC:15621](#))**Function**

Probable UDP-glucose transmembrane transporter involved in UDP-glucose transport from the cytosol to the lumen of synaptic vesicles (PubMed:<a href="http://www.uniprot.org/citations/34269178" target="\_blank">34269178</a>). It is involved in platelet dense granules maturation (By similarity).

**Cellular Location**

Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Multi-pass membrane protein. Early endosome membrane {ECO:0000250|UniProtKB:Q8BGF8}; Multi-pass membrane protein. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q8BGF8}; Multi-pass membrane

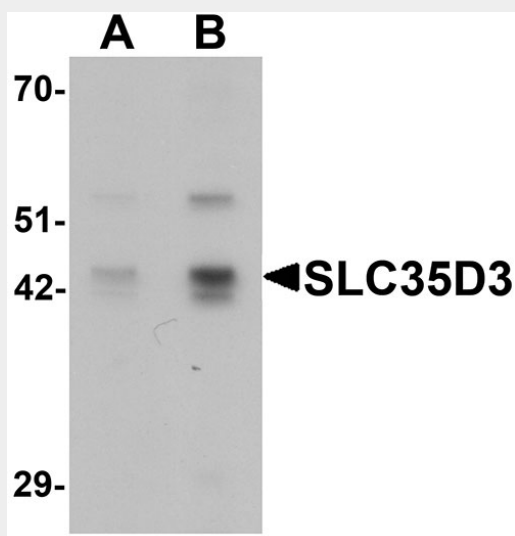
protein. Note=Active at early endosome membrane in the biosynthesis of mature platelet-dense granules {ECO:0000250|UniProtKB:Q8BGF8}

### SLC35D3 Antibody - Protocols

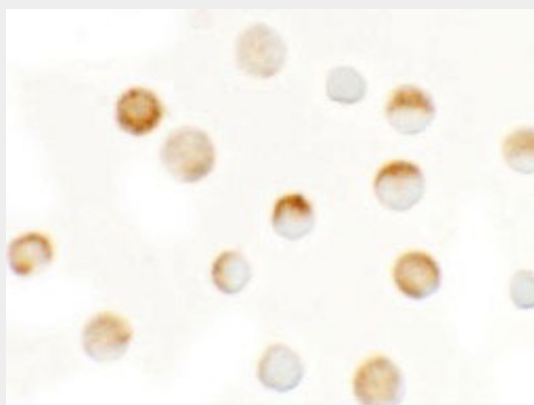
Provided below are standard protocols that you may find useful for product applications.

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

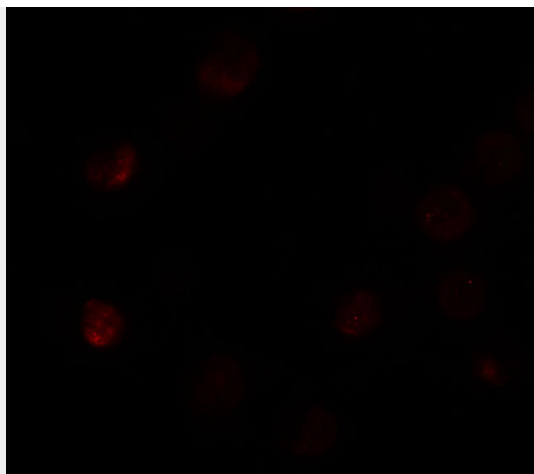
### SLC35D3 Antibody - Images



Western blot analysis of SLC35D3 in HeLa cell lysate with SLC35D3 antibody at (A) 1 and (B) 2  $\mu\text{g/mL}$ .



Immunocytochemistry of SLC35D3 in HeLa cells with SLC35D3 antibody at 2.5  $\mu\text{g/mL}$ .



Immunofluorescence of SLC35D3 in HeLa cells with SLC35D3 antibody at 5 µg/mL.

### **SLC35D3 Antibody - Background**

**SLC35D3 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 novel protein SLC35D3 is highly homologous to SLC35D1 and SLC35D2, both of which transport UDP-glucuronic acid and UDP-N-acetylgalactosamine, suggesting that SLC35D3 is also involved in the transport of nucleotide sugars. It has been suggested that SLC35D3 regulates platelet dense granules, lysosome-related organelles which contain high concentrations of several biologically important low molecular weight molecules necessary for normal blood homeostasis.

### **SLC35D3 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.  
Chintala S, Tan J, Gautam R, et al. The Slc35d3 gene, encoding an orphan nucleotide sugar transporter, regulates platelet-dense granules. *Blood* 2007; 109:1533-40