

SLC35D2 Antibody

Catalog # ASC11391

Product Information

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| Application | WB, ICC, E |
| Primary Accession | Q76EJ3 |
| Other Accession | NP_008932 , 223029426 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Calculated MW | 36673 |
| Concentration (mg/ml) | 1 mg/mL |
| Conjugate | Unconjugated |
| Application Notes | SLC35D2 antibody can be used for detection of SLC35D2 by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunocytochemistry starting at 5 μ g/mL. |

Additional Information

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| Gene ID | 11046 |
| Other Names | UDP-N-acetylglucosamine/UDP-glucose/GDP-mannose transporter, Homolog of Fringe connection protein 1, HFRC1, SQV7-like protein, SQV7L, Solute carrier family 35 member D2, UDP-galactose transporter-related protein 8, UGTrel8, SLC35D2, HFRC, UGTREL8 |
| 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. |

Protein Information

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| 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. |

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| 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 |

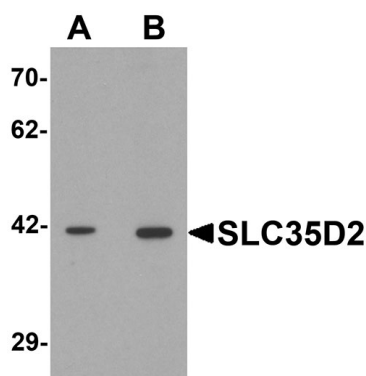
Background

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.

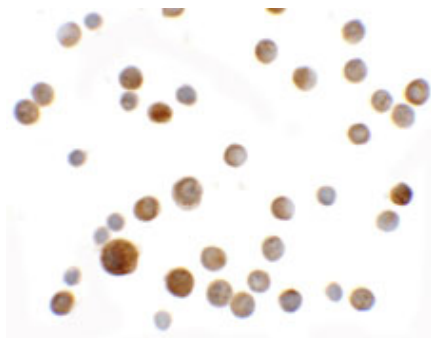
References

- 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.

Images



Western blot analysis of SLC35D2 in HeLa cell lysate with SLC35D2 antibody at (A) 1 and (B) 2 µg/mL.



Immunocytochemistry of SLC35D2 in HeLa cells with SLC35D2 antibody at 5 µg/mL.