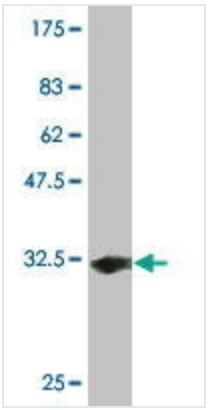
SLC35D2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	SLC35D2, Monoclonal Antibody
Full Product Name	SLC35D2 (Solute Carrier Family 35 Member D2, Homolog of Fringe Connection Protein 1, HFRC1, HFRC, SQV7-like Protein, SQV7L, UDP-N-acetylglucosamine/UDP-glucose/GDP-mannose Transporter, UDP-galactose Transporter-related Protein 8, UGTrel8) (FITC)
Product Gene Name	anti-SLC35D2 antibody
Clonality	Monoclonal
Isotype	IgG2a, lambda
Clone Number	1H5
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human SLC35D2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	26,702 Da
OMIM	609182
3D Structure	ModBase 3D Structure for Q76EJ3
Immunogen	Partial recombinant corresponding to aa74-132 from human SLC35D2 (NP_008932) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	VSKLNKIIHFPDFDKKIPVKLFPLPLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLT
Conjugate	FITC
Product Categories/Family for anti-SLC35D2 antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-SLC35D2 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-SLC35D2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-SLC35D2 antibody	MBS6149734 is an antibody targeting SLC35D2. Also known as SLC35D2 (Solute Carrier Family 35 Member D2, Homolog of Fringe Connection Protein 1, HFRC1, HFRC, SQV7-like Protein, SQV7L, UDP-N-acetylglucosamine/UDP-glucose/GDP-mannose Transporter, UDP-galactose Transporter-related Protein 8, UGTrel8) (FITC). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-SLC35D2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-SLC35D2 antibody
Western Blot detection against Immunogen (32.49kD).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC35D2. It may not necessarily be applicable to this product.

NCBI GI #	223029426
NCBI GeneID	11046
NCBI Accession #	NP_008932
UniProt Primary Accession #	Q76EJ3
UniProt Secondary Accession #	O95454; Q498C1; Q75W21; Q7Z5X5
UniProt Related Accession #	Q76EJ3
GenBank Nucleotide #	NM_007001
NCBI Official Full Name	UDP-N-acetylglucosamine/UDP-glucose/GDP-mannose transporter isoform a
NCBI Official Synonym Full Names	solute carrier family 35 (UDP-GlcNAc/UDP-glucose transporter), member D2
NCBI Official Symbol	SLC35D2
NCBI Official Synonym Symbols	hfrc; HFRC1; SQV7L; UGTrel8
UniProt Protein Name	UDP-N-acetylglucosamine/UDP-glucose/GDP-mannose transporter
UniProt Synonym Protein Names	Homolog of Fringe connection protein 1; HFRC1; SQV7-like protein; SQV7L; Solute carrier family 35 member D2; UDP-galactose transporter-related protein 8; UGTrel8
Protein Family	UDP-N-acetylglucosamine/UDP-glucose/GDP-mannose transporter
UniProt Gene Name	SLC35D2
UniProt Synonym Gene Names	HFRC; UGTREL8; HFRC1; SQV7L; UGTrel8
UniProt Entry Name	S35D2_HUMAN
NCBI Protein Information	UDP-N-acetylglucosamine/UDP-glucose/GDP-mannose transporter; SQV7-like protein; fringe connection; UDP-N-acetylglucosamine transporter; solute carrier family 35, member D2; homolog of Fringe connection protein 1; UDP-galactose transporter-related protein
NCBI Summary for SLC35D2	Nucleotide sugars, which are synthesized in the cytosol or the nucleus, are high-energy donor substrates for glycosyltransferases located in the lumen of the endoplasmic reticulum and Golgi apparatus. Translocation of nucleotide sugars from the cytosol into the lumen compartment is mediated by specific nucleotide sugar transporters, such as SLC35D2 (Suda et al., 2004 [PubMed 15082721]).[supplied by OMIM, Mar 2008]

UniProt Comments for SLC35D2	SLC35D2: Antiporter transporting nucleotide sugars such as UDP-N- acetylglucosamine (UDP-GlcNAc), UDP-glucose (UDP-Glc) and GDP- mannose (GDP-Man) pooled in the cytosol into the lumen of the Golgi in exchange for the corresponding nucleosides monophosphates (UMP for UDP-sugars and GMP for GDP-sugars). May take part in heparan sulfate synthesis by supplying UDP-Glc-NAc, the donor substrate, and thus be involved in growth factor signaling. Belongs to the TPT transporter family. SLC35D subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transporter, SLC family; Membrane protein, integral; Transporter; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 9q22.32 Cellular Component: Golgi membrane; integral to membrane Molecular Function: nucleotide-sugar transmembrane transporter activity Biological Process: keratan sulfate metabolic process; glycosaminoglycan biosynthetic process; glycosaminoglycan metabolic process; carbohydrate transport; carbohydrate metabolic process; keratan sulfate biosynthetic process; pathogenesis; transmembrane transport
Research Articles on SLC35D2	**1.** HFRC1 was overexpressed in human bronchial epithelial cells and was shown to localize in the Golgi and to enhance the surface expression of N-acetylglucosamine-rich glycans.
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