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[Marker Primary Antibody]

Rabbit Anti-SLC35D2/Biotin Conjugated antibody

Catalog Number: SL19824R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-SLC35D2/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human SLC35D2
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human
Background:	background: 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] **Function:** 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. **Subcellular Location:** Golgi apparatus membrane. **Tissue Specificity:** Highly expressed in heart, kidney, small intestine,

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	placenta, lung and peripheral blood leukocyte. Weakly expressed in skeletal muscle and spleen. Not expressed in brain, colon and thymus. **Similarity:** Belongs to the TPT transporter family. SLC35D subfamily. **Database links:** **Entrez Gene:** 11046 Human Omim: 609182 Human **SwissProt:** Q76EJ3 Human **Unigene:** 494556 Human **Unigene:** 731624 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.