

B4GALNT2 Antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI15420

Product Information

Application	WB
Primary Accession	Q8NHY0
Other Accession	NM_153446 , NP_703147
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63258

Additional Information

Gene ID	124872
Alias Symbol	B4GALT, GALGT2, MGC142235, MGC142237
Other Names	Beta-1, 4 N-acetylgalactosaminyltransferase 2, 2.4.1.-, Sd(a) beta-1, 4-GalNAc transferase, UDP-GalNAc:Neu5Aca2-3Galb-R b1, 4-N-acetylgalactosaminyltransferase, B4GALNT2, GALGT2
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-B4GALNT2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	B4GALNT2 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	B4GALNT2 {ECO:0000303 PubMed:30067891, ECO:0000312 HGNC:HGNC:24136}
Function	Beta-1,4 N-acetylgalactosaminyltransferase involved in the biosynthesis of Sd(a) histo-blood group antigen. Catalyzes the transfer of N-acetylgalactosamine (GalNAc) group in a beta-1,4-linkage from UDP- GalNAc to the galactose residue of NeuAcalpha2->3Gal-R to form Sd(a) glycan epitope GalNAcbeta1->4(NeuAcalpha2->3)Gal-R. The Sd(a) epitope is carried in O- and N-linked glycoproteins and glycolipids, including O-linked core 1 structures on GYPA/glycophorin, SLC4A1 and SLC29A1 in erythrocytes, N-linked glycans attached to the Tamm-Horsfall glycoprotein UMOD/uromodulin in renal

fluids, O-linked core 3 glycans on mucins in colon and neolactosides in gastric mucosa (PubMed:[12678917](#), PubMed:[14688233](#), PubMed:[16024623](#), PubMed:[35409292](#)). Confers protection against influenza A virus strains that attach to NeuA α 2-3-carrying host receptors. Modifies N-glycan chains on host receptors and prevents virus entry into cells (PubMed:[28813663](#)).

Cellular Location

[Isoform 1]: Golgi apparatus, trans-Golgi network membrane; Single-pass type II membrane protein. Cytoplasmic vesicle membrane; Single-pass type II membrane protein. Note=Partially colocalizes with EEA1 and LAMP2 in early endosomes and lysosomes, respectively.

Tissue Location

Widely expressed. Highly expressed in colon and to a lesser extent in kidney, stomach, ileum and rectum

References

Montiel M.D.,et al.Biochem. J. 373:369-379(2003).

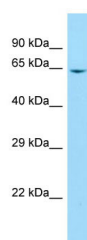
Lo Presti L.,et al.J. Biochem. 134:675-682(2003).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Zody M.C.,et al.Nature 440:1045-1049(2006).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Images



Host: Rabbit

Target Name: B4GALNT2

Sample Tissue: Jurkat Whole cell lysate

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Antibody Dilution: 1.0 μ g/ml

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.