

B3GNT1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP13200b**Specification**

B3GNT1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [O43505](#)**B3GNT1 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 11041

Other Names

Beta-1, 4-glucuronyltransferase 1, 241-, I-beta-1, 3-N-acetylglucosaminyltransferase, iGnT, N-acetyllactosaminide beta-1, 3-N-acetylglucosaminyltransferase, Poly-N-acetyllactosamine extension enzyme, UDP-GlcNAc:betaGal beta-1, 3-N-acetylglucosaminyltransferase 1, B3GNT1 (HGNC:15685)

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13200b was selected from the C-term region of B3GNT1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

B3GNT1 Antibody (C-term) Blocking Peptide - Protein Information

Name B4GA1

Function

Beta-1,4-glucuronyltransferase involved in O-mannosylation of alpha-dystroglycan (DAG1) (PubMed:19587235, PubMed:23359570, PubMed:25279699, PubMed:25279697). Transfers a glucuronic acid (GlcA) residue onto a xylose (Xyl) acceptor to produce the glucuronyl-beta- 1,4-xylose-beta disaccharide primer, which is further elongated by LARGE1, during synthesis of phosphorylated O-mannosyl glycan (PubMed:25279699, PubMed:25279697). Phosphorylated O-mannosyl glycan is a carbohydrate structure present in alpha-dystroglycan (DAG1), which is required for binding laminin G-like domain-containing extracellular proteins with high affinity (PubMed:25279699, PubMed:25279697). Required for axon guidance; via its function in O-mannosylation of alpha-dystroglycan (DAG1) (By similarity).

Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein. Note=Localizes near the trans-Golgi apparatus.

Tissue Location

In the adult, highly expressed in heart, brain, skeletal muscle and kidney and to a lesser extent in placenta, pancreas, spleen, prostate, testis, ovary, small intestine and colon Very weak expression in lung, liver, thymus and peripheral blood leukocytes. In fetal highly expressed in brain and kidney and to a lesser extent in lung and liver.

B3GNT1 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

B3GNT1 Antibody (C-term) Blocking Peptide - Images

B3GNT1 Antibody (C-term) Blocking Peptide - Background

This gene encodes a member of the beta-1,3-N-acetylglucosaminyltransferase family. This enzyme is a type II transmembrane protein. It is essential for the synthesis of poly-N-acetylglucosamine, a determinant for the blood group i antigen.

B3GNT1 Antibody (C-term) Blocking Peptide - References

Bao, X., et al. Proc. Natl. Acad. Sci. U.S.A. 106(29):12109-12114(2009) Lee, P.L., et al. Glycobiology 19(6):655-664(2009) Sasaki, K., et al. Proc. Natl. Acad. Sci. U.S.A. 94(26):14294-14299(1997)