

B3GAT3 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12032b**Specification**

B3GAT3 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [O94766](#)**B3GAT3 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 26229**Other Names**

Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 3, Beta-1, 3-glucuronyltransferase 3, Glucuronosyltransferase I, GlcAT-I, UDP-GlcUA:Gal beta-1, 3-Gal-R glucuronyltransferase, GlcUAT-I, B3GAT3

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.

B3GAT3 Antibody (C-term) Blocking peptide - Protein Information**Name** B3GAT3**Function**

Glycosaminoglycans biosynthesis (PubMed:25893793). Involved in forming the linkage tetrasaccharide present in heparan sulfate and chondroitin sulfate. Transfers a glucuronic acid moiety from the uridine diphosphate-glucuronic acid (UDP-GlcUA) to the common linkage region trisaccharide Gal-beta-1,3-Gal-beta-1,4-Xyl covalently bound to a Ser residue at the glycosaminylglycan attachment site of proteoglycans. Can also play a role in the biosynthesis of I2/HNK-1 carbohydrate epitope on glycoproteins. Shows strict specificity for Gal-beta-1,3-Gal-beta-1,4-Xyl, exhibiting negligible incorporation into other galactoside substrates including Galbeta1-3Gal beta1-O-benzyl, Galbeta1-4GlcNAc and Galbeta1-4Glc. Stimulates 2-phosphoxylose phosphatase activity of PXYLP1 in presence of uridine diphosphate- glucuronic acid (UDP-GlcUA) during completion of linkage region formation (PubMed:24425863).

Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein. Golgi apparatus, cis-Golgi network

Tissue Location

Ubiquitous (but weakly expressed in all tissues examined)

B3GAT3 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

B3GAT3 Antibody (C-term) Blocking peptide - Images**B3GAT3 Antibody (C-term) Blocking peptide - Background**

The protein encoded by this gene is a member of the glucuronyltransferase gene family, enzymes that exhibit strict acceptor specificity, recognizing nonreducing terminal sugars and their anomeric linkages. This gene product catalyzes the formation of the glycosaminoglycan-protein linkage by way of a glucuronyltransfer reaction in the final step of the biosynthesis of the linkage region of proteoglycans.

B3GAT3 Antibody (C-term) Blocking peptide - References

Tone, Y., et al. J. Biol. Chem. 283(24):16801-16807(2008) Fondeur-Gelinotte, M., et al. Glycobiology 17(8):857-867(2007) Lamesch, P., et al. Genomics 89(3):307-315(2007) Gulberti, S., et al. J. Biol. Chem. 280(2):1417-1425(2005) Venkatesan, N., et al. Proc. Natl. Acad. Sci. U.S.A. 101(52):18087-18092(2004)