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B3GALT1 Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP11634c

Specification

B3GALT1 Antibody (Center) Blocking peptide - Product Information

Primary Accession Q9Y5Z6

B3GALT1 Antibody (Center) Blocking peptide - Additional Information

Gene ID 8708

Other Names
Beta-1, 3-galactosyltransferase 1, Beta-1, 3-GalTase 1, Beta3Gal-T1, Beta3GalT1, 241-, UDP-galactose:beta-N-acetyl-glucosamine-beta-1, 3-galactosyltransferase 1, B3GALT1

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.

B3GALT1 Antibody (Center) Blocking peptide - Protein Information

Name B3GALT1 (HGNC:916)

Function
Beta-1,3-galactosyltransferase that transfers galactose from UDP-alpha-D-galactose to substrates with a terminal beta-N- acetylglucosamine (beta-GlcNAc) residue. Involved in the biosynthesis of the carbohydrate moieties of glycolipids and glycoproteins. Inactive towards substrates with terminal alpha-N-acetylglucosamine (alpha- GlcNAc) or alpha-N-acetylgalactosamine (alpha-GalNAc) residues.

Cellular Location
Golgi apparatus membrane; Single- pass type II membrane protein

Tissue Location
Detected in brain and colon mucosa and to a lesser extent in colon adenocarcinoma cells.

B3GALT1 Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

B3GALT1 Antibody (Center) Blocking peptide - Images

B3GALT1 Antibody (Center) Blocking peptide - Background

This gene is a member of thebeta-1,3-galactosyltransferase (beta3GalT) gene family. This familyencodes type II membrane-bound glycoproteins with diverse enzymaticfunctions using different donor substrates (UDP-galactose andUDP-N-acetylglucosamine) and different acceptor sugars(N-acetylglucosamine, galactose, N-acetylgalactosamine). Thebeta3GalT genes are distantly related to the Drosophila Brainiacgene and have the protein coding sequence contained in a singleexon. The beta3GalT proteins also contain conserved sequences notfound in the beta4GalT or alpha3GalT proteins. The carbohydratechains synthesized by these enzymes are designated as type 1,whereas beta4GalT enzymes synthesize type 2 carbohydrate chains.The ratio of type 1:type 2 chains changes during embryogenesis. Bysequence similarity, the beta3GalT genes fall into at least twogroups: beta3GalT4 and 4 other beta3GalT genes (beta3GalT1-3,beta3GalT5). This gene is expressed exclusively in the brain. Theencoded protein shows strict donor substrate specificity forUDP-galactose.

B3GALT1 Antibody (Center) Blocking peptide - References

Hillier, L.W., et al. Nature 434(7034):724-731(2005)Amado, M., et al. Biochim. Biophys. Acta 1473(1):35-53(1999)Bardoni, A., et al. FEBS Lett. 451(1):75-80(1999)Amado, M., et al. J. Biol. Chem. 273(21):12770-12778(1998)Kolbinger, F., et al. J. Biol. Chem. 273(1):433-440(1998)