

B3GALT1 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP11634c**Specification**

B3GALT1 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [O9Y5Z6](#)**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 the beta-1,3-galactosyltransferase (beta3GalT) gene family. This family encodes type II membrane-bound glycoproteins with diverse enzymatic functions using different donor substrates (UDP-galactose and UDP-N-acetylglucosamine) and different acceptor sugars (N-acetylglucosamine, galactose, N-acetylgalactosamine). The beta3GalT genes are distantly related to the Drosophila Brainiac gene and have the protein coding sequence contained in a single exon. The beta3GalT proteins also contain conserved sequences not found in the beta4GalT or alpha3GalT proteins. The carbohydrate chains 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. By sequence similarity, the beta3GalT genes fall into at least two groups: beta3GalT4 and 4 other beta3GalT genes (beta3GalT1-3, beta3GalT5). This gene is expressed exclusively in the brain. The encoded protein shows strict donor substrate specificity for UDP-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)