

B3GNT5 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9649c

Specification

B3GNT5 Antibody (Center) Blocking Peptide - Product Information

Primary Accession [Q9BYG0](#)

B3GNT5 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 84002

Other Names

Lactosylceramide 1, 3-N-acetyl-beta-D-glucosaminyltransferase, Lactotriaosylceramide synthase, Lc(3)Cer synthase, Lc3 synthase, UDP-GlcNAc:beta-Gal beta-1, 3-N-acetylglucosaminyltransferase 5, BGnT-5, Beta-1, 3-Gn-T5, Beta-1, 3-N-acetylglucosaminyltransferase 5, Beta3Gn-T5, B3GNT5

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.

B3GNT5 Antibody (Center) Blocking Peptide - Protein Information

Name B3GNT5 ([HGNC:15684](#))

Function

Beta-1,3-N-acetylglucosaminyltransferase that plays a key role in the synthesis of lacto- or neolacto-series carbohydrate chains on glycolipids, notably by participating in biosynthesis of HNK-1 and Lewis X carbohydrate structures. Has strong activity toward lactosylceramide (LacCer) and neolactotetraosylceramide (nLc(4)Cer; paragloboside), resulting in the synthesis of Lc(3)Cer and neolactopentaosylceramide (nLc(5)Cer), respectively. Probably plays a central role in regulating neolacto-series glycolipid synthesis during embryonic development.

Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein

Tissue Location

Widely expressed. Highly expressed in lung, colon, placenta, testis, pituitary gland and cerebellum. Weakly expressed in brain, liver, spleen, lymph node and thymus

B3GNT5 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

B3GNT5 Antibody (Center) Blocking Peptide - Images

B3GNT5 Antibody (Center) Blocking Peptide - Background

B3GNT5 is a member of the beta-1,3-N-acetylglucosaminyltransferase family. This enzyme is a type II membrane protein. It exhibits strong activity to transfer GlcNAc to glycolipid substrates and is identified as the most likely candidate for lactotriaosylceramide synthase. This enzyme is essential for the expression of Lewis X epitopes on glycolipids.

B3GNT5 Antibody (Center) Blocking Peptide - References

Marcos, N.T., et al. J. Clin. Invest. 118(6):2325-2336(2008)Togayachi, A., et al. J. Biol. Chem. 276(25):22032-22040(2001)