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B4GALT6 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP10697b

Specification

B4GALT6 Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q9UBX8

B4GALT6 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 9331

Other Names
Beta-1, 4-galactosyltransferase 6, Beta-1, 4-GalTase 6, Beta4Gal-T6, b4Gal-T6, 241-, UDP-Gal:beta-GlcNAc beta-1, 4-galactosyltransferase 6, UDP-galactose:beta-N-acetylglucosamine beta-1, 4-galactosyltransferase 6, Glucosylceramide beta-1, 4-galactosyltransferase, Lactosylceramide synthase, LacCer synthase, UDP-Gal:glucosylceramide beta-1, 4-galactosyltransferase, B4GALT6

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.

B4GALT6 Antibody (C-term) Blocking peptide - Protein Information

Name B4GALT6 (HGNC:929)

Function
Catalyzes the synthesis of lactosylceramide (LacCer) via the transfer of galactose from UDP-galactose to glucosylceramide (GlcCer) (PubMed:3099851, PubMed:1551920, PubMed:24498430). LacCer is the starting point in the biosynthesis of all gangliosides (membrane-bound glycosphingolipids) which play pivotal roles in the CNS including neuronal maturation and axonal and myelin formation (By similarity).

Cellular Location
Golgi apparatus, Golgi stack membrane {ECO:0000250|UniProtKB:P15291}; Single-pass type II membrane protein Note=Trans cisternae of Golgi stack. {ECO:0000250|UniProtKB:P15291}

Tissue Location

High expression in brain and adrenal gland, lower in liver, lung, colon and peripheral white blood cells

B4GALT6 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

B4GALT6 Antibody (C-term) Blocking peptide - Images

B4GALT6 Antibody (C-term) Blocking peptide - Background

This gene is one of seven beta-1,4-galactosyltransferase(beta4GalT) genes. They encode type II membrane-bound glycoproteinsthat appear to have exclusive specificity for the donor substrateUDP-galactose; all transfer galactose in a beta1,4 linkage tosimilar acceptor sugars: GlcNAc, Glc, and Xyl. Each beta4GalT has adistinct function in the biosynthesis of different glycoconjugatesand saccharide structures. As type II membrane proteins, they havean N-terminal hydrophobic signal sequence that directs the proteinto the Golgi apparatus and which then remains uncleaved to functionas a transmembrane anchor. By sequence similarity, the beta4GalTsform four groups: beta4GalT1 and beta4GalT2, beta4GalT3 andbeta4GalT4, beta4GalT5 and beta4GalT6, and beta4GalT7. The enzymeencoded by this gene is a lactosylceramide synthase important forglycolipid biosynthesis.

B4GALT6 Antibody (C-term) Blocking peptide - References

Landers, J.E., et al. Proc. Natl. Acad. Sci. U.S.A. 106(22):9004-9009(2009)Gevaert, K., et al. Nat. Biotechnol. 21(5):566-569(2003)Fan, Y., et al. DNA Seq. 13(1):1-8(2002)Amado, M., et al. Biochim. Biophys. Acta 1473(1):35-53(1999)Takizawa, M., et al. Biochim. Biophys. Acta 1438(2):301-304(1999)