B3GNT5 Antibody

PRODUCT OVERVIEW

Product Name	B3GNT5, Antibody
Full Product Name	B3GNT5 Antibody
Product Gene Name	anti-B3GNT5 antibody
Molecular Weight	44,053 Da
OMIM	615333
3D Structure	ModBase 3D Structure for Q9BYG0
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-B3GNT5 antibody	MBS8504801 is an antibody targeting B3GNT5. Also known as B3GNT5 Antibody.
Other Notes	Small volumes of anti-B3GNT5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for B3GNT5. It may not necessarily be applicable to this product.

NCBI GI #	14042986
NCBI GeneID	84002
NCBI Accession #	NP_114436.1
UniProt Primary Accession #	Q9BYG0
UniProt Secondary Accession #	Q59FE3; Q7L9Z5; Q8WWP9; D3DNS5
UniProt Related Accession #	Q9BYG0
GenBank Nucleotide #	NM_032047.4
NCBI Official Full Name	lactosylceramide 1,3-N-acetyl-beta-D-glucosaminyltransferase
NCBI Official Synonym Full Names	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5
NCBI Official Symbol	B3GNT5
NCBI Official Synonym Symbols	B3GN-T5; beta3Gn-T5
UniProt Protein Name	Lactosylceramide 1,3-N-acetyl-beta-D-glucosaminyltransferase
UniProt Synonym Protein Names	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
Protein Family	Lactosylceramide 1,3-N-acetyl-beta-D-glucosaminyltransferase
UniProt Gene Name	B3GNT5
UniProt Synonym Gene Names	Lc(3)Cer synthase; Lc3 synthase; BGnT-5; Beta-1,3-Gn-T5; Beta-1,3-N-acetylglucosaminyltransferase 5; Beta3Gn-T5

NCBI Protein Information	lactosylceramide 1,3-N-acetyl-beta-D-glucosaminyltransferase
NCBI Summary for B3GNT5	This gene encodes 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. [provided by RefSeq, Jul 2008]
UniProt Comments for B3GNT5	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 (nLc4Cer; paragloboside), resulting in the synthesis of Lc3Cer and neolactopentaosylceramide (nLc5Cer), respectively. Probably plays a central role in regulating neolacto-series glycolipid synthesis during embryonic development.
Research Articles on B3GNT5	**1.** bone marrow samples of acute myeloid leukemia patients had 16-fold higher expression of B3GNT5 than those of healthy donors
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