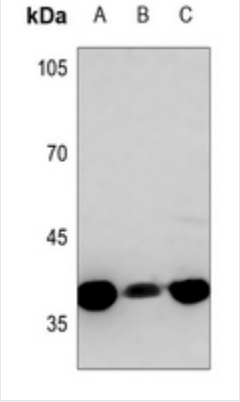
B3GALT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	B3GALT1, Polyclonal Antibody
Full Product Name	Anti-B3GALT1 Antibody
Product Gene Name	anti-B3GALT1 antibody
Product Synonym Names	Beta-1; 3-galactosyltransferase 1; Beta-1; 3-GalTase 1; Beta3Gal-T1; Beta3GalT1; UDP-galactose: beta-N-acetyl-glucosamine-beta-1; 3-galactosyltransferase 1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	37,993 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (168675182..168727366). Location: 2q24.3
OMIM	603093
3D Structure	ModBase 3D Structure for Q9Y5Z6
Applications Tested/Suitable for anti-B3GALT1 antibody	Western Blot (WB), Immunoprecipitation (IP)
Related Product Information for anti-B3GALT1 antibody	Rabbit polyclonal antibody to B3GALT1 KLH-conjugated synthetic peptide encompassing a sequence within the center region of human B3GALT1. The exact sequence is proprietary.
Other Notes	Small volumes of anti-B3GALT1 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.
Searchable Terms for B3GALT1 purchase	MBS9239323 is an antibody targeting B3GALT1. Reactive in Human, Mouse, Rat. Host: Rabbit.



Wester Blot (WB) of anti-B3GALT1 antibody
Dilution: WB (1/500 - 1/1000), IP (1/10 - 1/100)Western blot analysis of B3GALT1 expression in mouse muscle (A), rat testis (B), rat muscle (C) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for B3GALT1. It may not necessarily be applicable to this product.

NCBI GI #	10304987
NCBI GeneID	8708
NCBI Accession #	NP_066191.1
UniProt Primary Accession #	Q9Y5Z6
UniProt Secondary Accession #	Q53SS2; D3DPB8
UniProt Related Accession #	Q9Y5Z6
GenBank Nucleotide #	NM_020981.3
NCBI Official Full Name	beta-1,3-galactosyltransferase 1
NCBI Official Synonym Full Names	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1
NCBI Official Symbol	B3GALT1
NCBI Official Synonym Symbols	beta3Gal-T1
UniProt Protein Name	Beta-1,3-galactosyltransferase 1
UniProt Synonym Protein Names	UDP-galactose:beta-N-acetyl-glucosamine-beta-1,3-galactosyltransferase 1
Protein Family	Beta-1,3-galactosyltransferase
UniProt Gene Name	B3GALT1
UniProt Synonym Gene Names	Beta-1,3-GalTase 1; Beta3Gal-T1; Beta3GalT1
UniProt Entry Name	B3GT1_HUMAN
NCBI Protein Information	beta-1,3-galactosyltransferase 1; beta3GalT1; beta-3-galt1; beta-1,3-GalTase 1; UDP-galactose:beta-N-acetyl-glucosamine-beta-1,3-galactosyltransferase 1
NCBI Summary for B3GALT1	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. [provided by RefSeq, Jul 2008]
UniProt Comments for B3GALT1	B3GALT1: Beta-1,3-galactosyltransferase that transfers galactose from UDP-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. Belongs to the glycosyltransferase 31 family. Protein type: Transferase; Membrane protein, integral; EC 2.4.1.-; Glycan Metabolism - glycosphingolipid biosynthesis - lacto and neolacto series Chromosomal Location of Human Ortholog: 2q24.3 Cellular Component: Golgi membrane; integral to membrane Molecular Function: UDP-galactose:beta-N-acetylglucosamine beta-1,3-galactosyltransferase activity Biological Process: oligosaccharide biosynthetic process; protein amino acid glycosylation

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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