B4GALT2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	B4GALT2, Polyclonal Antibody
Full Product Name	B4GALT2 Antibody, HRP conjugated
Product Gene Name	anti-B4GALT2 antibody
Product Synonym Names	Beta-1, 4-galactosyltransferase 2; Beta-1; 4-GalTase 2; Beta4Gal-T2; b4Gal-T2; UDP-Gal:beta-GlcNAc beta-1; 4-galactosyltransferase 2; UDP-galactose:beta-N-acetylglucosamine beta-1; 4-galactosyltransferase 2; Lactose synthase A protein; N-acetyllactosamine synthase; Nal synthase; Beta-N-acetylglucosaminylglycopeptide beta-1; 4-galactosyltransferase; Beta-N-acetylglucosaminyl-glycolipid beta-1; 4-galactosyltransferase; B4GALT2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: B4GALT2 (MBS7051777) HRP Conjugated Antibody: B4GALT2 (MBS7051778)
Molecular Weight	44,764 Da
OMIM	Y12510 mRNA
3D Structure	ModBase 3D Structure for O60909
Immunogen	Recombinant Human Beta-1, 4-galactosyltransferase 2 protein (271-372AA)
Conjugation	HRP
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-B4GALT2 antibody	ELISA (EIA)
Related Product Information for anti-B4GALT2 antibody	Responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids. Can produce lactose.
Other Notes	Small volumes of anti-B4GALT2 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 B4GALT2 purchase	MBS7051778 is an antibody targeting B4GALT2. Also known as B4GALT2 Antibody, HRP conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for B4GALT2. It may not necessarily be applicable to this product.

NCBI GI #	53759113
NCBI GeneID	8704
NCBI Accession #	NP_001005417.1
UniProt Primary Accession #	O60909
UniProt Secondary Accession #	O60511; Q4V9L9; Q5T4X5; Q5T4Y5; Q9BUP6; Q9NSY7; B3KTP0; B4DE14; D3DPY6; D3DPY7
UniProt Related Accession #	O60909
GenBank Nucleotide #	NM_001005417.2
NCBI Official Full Name	beta-1,4-galactosyltransferase 2 isoform b
NCBI Official Synonym Full Names	beta-1,4-galactosyltransferase 2
NCBI Official Symbol	B4GALT2
NCBI Official Synonym Symbols	B4Gal-T2; B4Gal-T3; beta4Gal-T2
UniProt Protein Name	Beta-1,4-galactosyltransferase 2
UniProt Synonym Protein Names	UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 2; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 2Including the following 4 domains:Lactose synthase A protein (EC:2.4.1.22)N-acetyllactosamine synthase (EC:2.4.1.90)Alternative name(s):Nal synthase
Protein Family	Beta-1,4-galactosyltransferase
UniProt Gene Name	B4GALT2
UniProt Synonym Gene Names	Beta-1,4-GalTase 2; Beta4Gal-T2; b4Gal-T2
NCBI Protein Information	beta-1,4-galactosyltransferase 2
NCBI Summary for B4GALT2	This gene is one of seven beta-1,4-galactosyltransferase (beta4GalT) genes. They encode type II membrane-bound glycoproteins that appear to have exclusive specificity for the donor substrate UDP-galactose; all transfer galactose in a beta1,4 linkage to similar acceptor sugars: GlcNAc, Glc, and Xyl. Each beta4GalT has a distinct function in the biosynthesis of different glycoconjugates and saccharide structures. As type II membrane proteins, they have an N-terminal hydrophobic signal sequence that directs the protein to the Golgi apparatus and which then remains uncleaved to function as a transmembrane anchor. By sequence similarity, the beta4GalTs form four groups: beta4GalT1 and beta4GalT2, beta4GalT3 and beta4GalT4, beta4GalT5 and beta4GalT6, and beta4GalT7. The enzyme encoded by this gene synthesizes N-acetyllactosamine in glycolipids and glycoproteins. Its substrate specificity is affected by alpha-lactalbumin but it is not expressed in lactating mammary tissue. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2011]
UniProt Comments for B4GALT2	B4GALT2: Responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids. Can produce lactose. Belongs to the glycosyltransferase 7 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Carbohydrate Metabolism - galactose; EC 2.4.1.22; EC 2.4.1.38; EC 2.4.1.90; Glycan Metabolism - N-glycan biosynthesis; Glycan Metabolism - glycosphingolipid biosynthesis - lacto and neolacto series; Glycan Metabolism - keratan sulfate biosynthesis; Membrane protein, integral; Transferase Chromosomal Location of Human Ortholog: 1p34.1 Cellular Component: Golgi membrane Molecular Function: beta-N-acetylglucosaminylglycopeptide beta-1,4-galactosyltransferase activity; galactosyltransferase activity Biological Process: keratan sulfate biosynthetic process
Research Articles on B4GALT2	**1.** Study provides evidence that mutations in B3GNT2, B4GALT2, and ST6GALNAC2 underlie aberrant glycosylation, and contribute to the pathogenesis of molecular subsets of colon and other gastrointestinal malignancies.

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