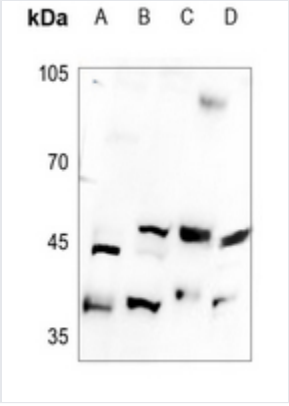
B4GALT5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	B4GALT5, Polyclonal Antibody
Full Product Name	Anti-B4GALT5 Antibody
Product Gene Name	anti-B4GALT5 antibody
Product Synonym Names	Beta-1; 4-galactosyltransferase 5; Beta-1; 4-GalTase 5; Beta4Gal-T5; b4Gal-T5; Beta-1; 4-GalT II; UDP-Gal: beta-GlcNAc beta-1; 4-galactosyltransferase 5; UDP-galactose: beta-N-acetylglucosamine beta-1; 4-galactosyltransferase 5
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat, Monkey
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	45,119 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (48249482..48330421, complement). Location: 20q13.1-q13.2
OMIM	604016
3D Structure	ModBase 3D Structure for O43286
Applications Tested/Suitable for anti-B4GALT5 antibody	Western Blot (WB)
Related Product Information for anti-B4GALT5 antibody	Rabbit polyclonal antibody to B4GALT5 KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human B4GALT5. The exact sequence is proprietary.
Other Notes	Small volumes of anti-B4GALT5 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 B4GALT5 purchase	MBS9239349 is an antibody targeting B4GALT5. Reactive in Human, Mouse, Rat, Monkey. Host: Rabbit.



Wester Blot (WB) of anti-B4GALT5 antibody
Dilution: WB (1/500 - 1/1000)Western blot analysis of B4GALT5 expression in K562 (A), A549 (B), mouse heart (C), rat brain (D) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for B4GALT5. It may not necessarily be applicable to this product.

NCBI GI #	4757828
NCBI GeneID	9334
NCBI Accession #	NP_004767.1
UniProt Primary Accession #	O43286
UniProt Secondary Accession #	Q2M394; Q9UJQ8; E1P625
UniProt Related Accession #	O43286
GenBank Nucleotide #	NM_004776.3
NCBI Official Full Name	beta-1,4-galactosyltransferase 5
NCBI Official Synonym Full Names	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5
NCBI Official Symbol	B4GALT5
NCBI Official Synonym Symbols	gt-V; B4Gal-T5; beta4Gal-T5; beta4GalT-V; BETA4-GALT-IV
UniProt Protein Name	Beta-1,4-galactosyltransferase 5
UniProt Synonym Protein Names	Beta-1,4-GalT II; UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 5; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 5
Protein Family	Beta-1,4-galactosyltransferase
UniProt Gene Name	B4GALT5
UniProt Synonym Gene Names	Beta-1,4-GalTase 5; Beta4Gal-T5; b4Gal-T5
UniProt Entry Name	B4GT5_HUMAN
NCBI Protein Information	beta-1,4-galactosyltransferase 5; beta4-GalT IV; beta-1,4-GalT II; beta-1,4-GalT IV; beta-1,4-GalTase 5; beta-1.4-galactosyltransferase V; UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 5; UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide
NCBI Summary for B4GALT5	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 function of the enzyme encoded by this gene is not clear. This gene was previously designated as B4GALT4 but was renamed to B4GALT5. In the literature it is also referred to as beta4GalT2. [provided by RefSeq, Jul 2008]
UniProt Comments for B4GALT5	B4GALT5: Responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids. Belongs to the glycosyltransferase 7 family. Protein type: Membrane protein, integral; Glycan Metabolism - O-glycan biosynthesis; EC 2.4.1.-; Transferase Chromosomal Location of Human Ortholog: 20q13.1-q13.2 Cellular Component: Golgi membrane; integral to membrane Molecular Function: metal ion binding; galactosyltransferase activity Biological Process: keratan sulfate metabolic process; protein amino acid O-linked glycosylation; cellular protein metabolic process; O-glycan processing; glycosaminoglycan metabolic process; carbohydrate metabolic process; keratan sulfate biosynthetic process; pathogenesis; protein amino acid N-linked glycosylation via asparagine; post-translational protein modification

Research Articles on B4GALT5	**1.** The expression of the beta-1,4-GalT V gene has been shown to be regulated by transcription factors Sp1 and Ets-1 in cancer cells.(review)
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