



β-1,4-Gal-T3 Monoclonal Antibody

Catalog No	BYmab-04293
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	B4GALT3
Protein Name	Beta-1,4-galactosyltransferase 3
Immunogen	The antiserum was produced against synthesized peptide derived from human B4GALT3. AA range:271-320
Specificity	β -1,4-Gal-T3 Monoclonal Antibody detects endogenous levels of $\ \beta$ -1,4-Gal-T3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification Dilution	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen. WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	B4GALT3; Beta-1; 4-galactosyltransferase 3; Beta-1,4-GalTase 3; Beta4Gal-T3; b4Gal-T3; UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 3; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 3
Observed Band	49kD
Cell Pathway	Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Trans cisternae of Golgi stack.
Tissue Specificity	Found in various tissues. Highest expression in placenta, prostate, testis, ovary, intestine and muscle, and in fetal brain.
Function	catalytic activity:UDP-galactose + N-acetyl-beta-D-glucosaminylglycopeptide = UDP + beta-D-galactosyl-(1->4)-N-acetyl-beta-D-glucosaminylglycopeptide.,catalytic activity:UDP-galactose + N-acetyl-D-glucosamine = UDP + N-acetyllactosamine.,cofactor:Manganese.,function:Responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids.,online information:Beta-1,4-galactosyltransferase 3,online information:GlycoGene

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	database,pathway:Protein modification; protein glycosylation.,similarity:Belongs to the glycosyltransferase 7 family.,subcellular location:Trans cisternae of Golgi stack.,tissue specificity:Found in various tissues. Highest expression in placenta, prostate, testis, ovary, intestine and muscle, and in fetal brain.,						
Background	This gene is one of seven beta-1,4-galactosyltransferase (beta4GaIT) 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 beta4GaIT 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 beta4GaITs form four groups: beta4GaIT1 and beta4GaIT2, beta4GaIT3 and beta4GaIT4, beta4GaIT5 and beta4GaIT6, and beta4GaIT7. This gene encodes an enzyme that may be mainly involved in the synthesis of the first N-acetyllactosamine unit of poly-N-acet						
matters needing attention	Avoid repeated freezing and thawing!						
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.						
Products Images							

	HepG2 HeLa JK	JK	117	Western Blot analysis of various cells using -1,4-Gal-T3 Monoclonal Antibody	β	
				85		
B4GALT3				48		
	-			34		
				26		
	2			19 (kD)		

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