



B4GT4 Monoclonal Antibody

Catalog No	BYmab-05376
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	B4GALT4 UNQ552/PRO1109
Protein Name	Beta-1,4-galactosyltransferase 4 (Beta-1,4-GalTase 4) (Beta4Gal-T4) (b4Gal-T4) (EC 2.4.1.-) (UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 4) (UDP-galactose:beta-N-acetylglucosamine beta-1,4-gala
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	B4GT4 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	37kD
Cell Pathway	Golgi apparatus membrane ; Single-pass type II membrane protein . Secreted .
Tissue Specificity	Highest expression is observed in placenta, pancreas, kidney and heart (PubMed:9792633). Expressed in corneal epithelial cells (PubMed:17690104).
Function	catalytic activity:UDP-galactose + N-acetyl-D-glucosamine = UDP + N-acetylglucosamine.;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 4,online information:GlycoGene database,pathway:Protein modification; protein glycosylation.;similarity:Belongs to the glycosyltransferase 7 family.;subcellular location:Trans cisternae of Golgi stack.;tissue specificity:High expression in heart, placenta, kidney and pancreas; lower in brain, colon, lung, muscle, ovary, testis and uterus.;

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Background

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 appears to mainly play a role in glycolipid biosynthesis. Two alternatively spliced transcrip

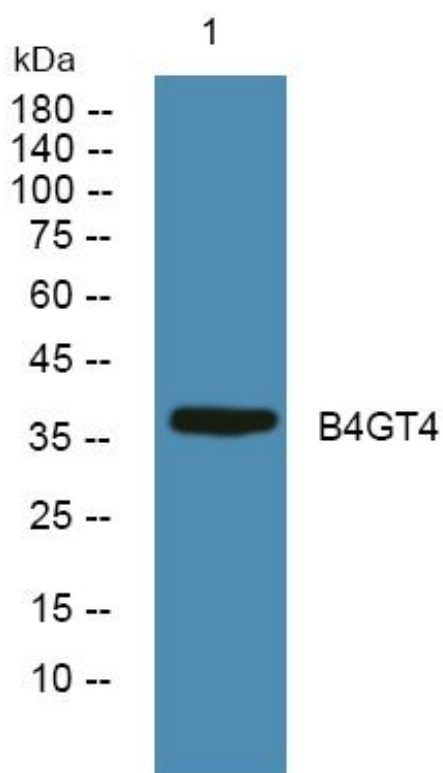
matters needing attention

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



Western Blot analysis of various cells using B4GT4 Monoclonal Antibody