

β-1,3-Gal-T2 Polyclonal Antibody

Catalog No :	YT5003
Reactivity :	Human;Mouse
Applications :	IHC;IF;ELISA
Target :	β-1,3-Gal-T2
Fields :	>>Glycosphingolipid biosynthesis - lacto and neolacto series;>>Metabolic pathways
Gene Name :	B3GALT2
Protein Name :	Beta-1,3-galactosyltransferase 2
Human Gene Id :	8707
Human Swiss Prot	O43825
Mouse Gene Id :	26878
Mouse Swiss Prot	O54905
Immunogen :	The antiserum was produced against synthesized peptide derived from human B3GALT2. AA range:373-422
Specificity :	β-1,3-Gal-T2 Polyclonal Antibody detects endogenous levels of β-1,3-Gal-T2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity- chromatography using epitope-specific immunogen.



Best Tools for immunology Research	
Concentration :	1 mg/ml
Ctorono Ctobility	15% to $25%$ $C/1$ year/Do not lower than $25%$ $C)$
Storage Stability :	-15°C to -25°C/T year(Do not lower than -25°C)
Molecularweight :	49kD
Cell Pathway :	Glycosphingolipid biosynthesis;
Background :	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 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 beta3
Function :	cofactor:Manganese.,function:Beta-1,3-galactosyltransferase that transfers galactose from UDP-galactose to substrates with a terminal beta-N- acetylglucosamine (beta-GlcNAc) residue. Can also utilize substrates with a terminal galactose residue, albeit with lower efficiency. 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.,online information:Beta-1,3-galactosyltransferase 2,online information:GlycoGene database,pathway:Protein modification; protein glycosylation.,similarity:Belongs to the glycosyltransferase 31 family.,tissue specificity:Detected in heart and brain.,
Subcellular Location :	Golgi apparatus membrane ; Single-pass type II membrane protein .
Expression :	Detected in heart and brain.

Products Images





Immunofluorescence analysis of A549 cells, using B3GALT2 Antibody. The picture on the right is blocked with the synthesized peptide.

Immunohistochemistry analysis of paraffin-embedded human heart tissue, using B3GALT2 Antibody. The picture on the right is blocked with the synthesized peptide.