Best Tools for immunology Research

β-1,4-Gal-T3 Polyclonal Antibody

Catalog No :	YT5009
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	β-1,4-Gal-T3
Fields :	>>N-Glycan biosynthesis;>>Various types of N-glycan biosynthesis;>>Other types of O-glycan biosynthesis;>>Mannose type O-glycan biosynthesis;>>Glycosaminoglycan biosynthesis - keratan sulfate;>>Glycosphingolipid biosynthesis - lacto and neolacto series;>>Metabolic pathways
Gene Name :	B4GALT3
Protein Name :	Beta-1,4-galactosyltransferase 3
Human Gene Id :	8703
Human Swiss Prot No :	O60512
Mouse Gene Id :	57370
Mouse Swiss Prot No :	Q91YY2
Rat Gene Id :	494342
Rat Swiss Prot No :	Q6P768
Immunogen :	The antiserum was produced against synthesized peptide derived from human B4GALT3. AA range:271-320
Specificity :	β-1,4-Gal-T3 Polyclonal Antibody detects endogenous levels of β-1,4-Gal-T3 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	49kD
Cell Pathway :	N-Glycan biosynthesis;Keratan sulfate biosynthesis;Glycosphingolipid biosynthesis;
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. This gene encodes an enzyme that may be mainly involved in the synthesis of the first N-acetyllactosamine unit of poly-N-acet
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 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.,
Subcellular Location :	Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Trans cisternae of Golgi stack.
Expression :	Found in various tissues. Highest expression in placenta, prostate, testis, ovary, intestine and muscle, and in fetal brain.

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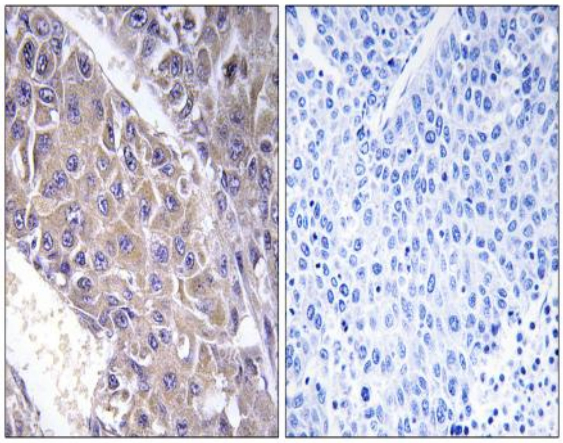
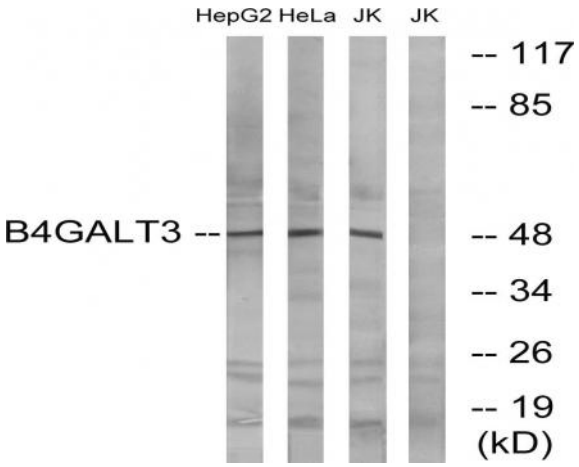
Tag :	orthogonal
Sort :	24848
Host :	Rabbit
Modifications :	Unmodified

Products Images



Immunohistochemistry analysis of paraffin-embedded human liver carcinoma tissue, using B4GALT3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat, HeLa, and HepG2 cells, using B4GALT3 Antibody. The lane on the right is blocked with the synthesized peptide.