



# $\beta$ -1,3-Gal-T4 Polyclonal Antibody

<b>Catalog No</b>	BYab-04288
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	B3GALT4
<b>Protein Name</b>	Beta-1,3-galactosyltransferase 4
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human B3GALT4. AA range:181-230
<b>Specificity</b>	$\beta$ -1,3-Gal-T4 Polyclonal Antibody detects endogenous levels of $\beta$ -1,3-Gal-T4 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	$\geq 90\%$
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	B3GALT4; GALT4; Beta-1; 3-galactosyltransferase 4; Beta-1,3-GalTase 4; Beta3Gal-T4; Beta3GalT4; GalT4; b3Gal-T4; Gal-T2; Ganglioside galactosyltransferase; UDP-galactose:beta-N-acetyl-galactosamine-beta-1,3-galactosyltransferase
<b>Observed Band</b>	42kD
<b>Cell Pathway</b>	Golgi apparatus membrane ; Single-pass type II membrane protein .
<b>Tissue Specificity</b>	Highly expressed in heart, skeletal muscle and pancreas and, to a lesser extent, in brain, placenta, kidney, liver and lung.
<b>Function</b>	catalytic activity:UDP-galactose + N-acetyl-D-galactosaminyl-(N-acetylneuraminy)-D-galactosyl-(1->4)-beta-D-glucosyl-N-acylsphingosine = UDP + D-galactosyl-(1->3)-beta-N-acetyl-D-galactosaminyl-(N-acetylneuraminy)-D-galactosyl-D-glucosyl-N-acylsphingosine.,function:Involved in GM1/GD1B/GA1 ganglioside biosynthesis.,online information:Beta-1,3-galactosyltransferase 4,online information:GlycoGene database,pathway:Protein modification; protein

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glycosylation.,similarity:Belongs to the glycosyltransferase 31 family.,tissue specificity:Highly expressed in heart, skeletal muscle and pancreas and, to a lesser extent, in brain, placenta, kidney, liver and lung.,

**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 synthesized by these enzymes are designated as type 1, whereas beta4GalT enzymes 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

**matters needing attention**

Avoid repeated freezing and thawing!

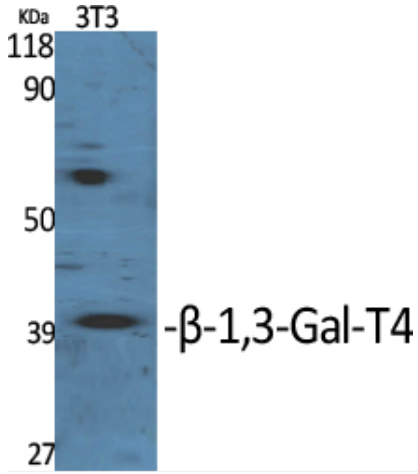
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

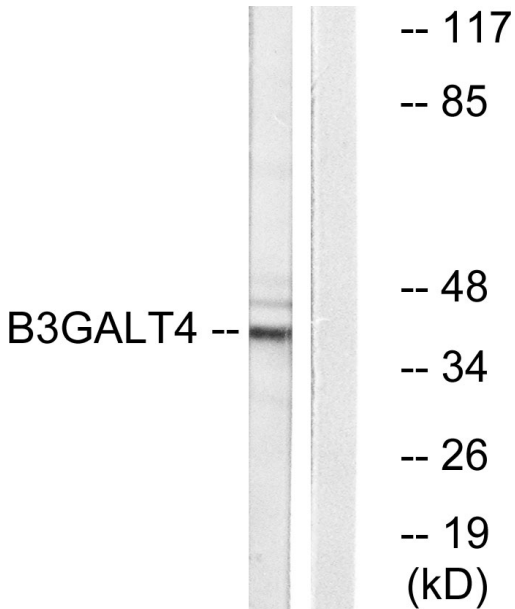
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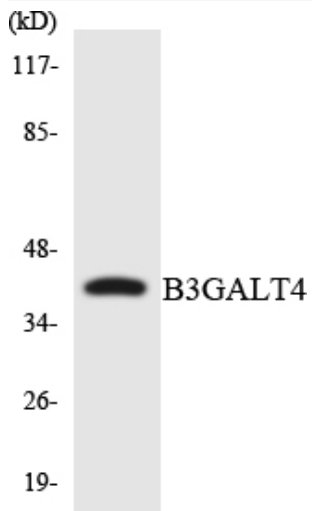
## Products Images



Western Blot analysis of various cells using  $\beta$ -1,3-Gal-T4 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western blot analysis of lysates from Jurkat cells, using B3GALT4 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from 293 cells using B3GALT4 antibody.

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