

## Product datasheet for **AP01385PU-M**

### **B4GALT3 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	$\beta$ -1,4-Gal-T3 antibody detects endogenous levels of $\beta$ -1,4-Gal-T3 protein. (region surrounding Phe304)
Formulation:	Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~49 kDa
Gene Name:	beta-1,4-galactosyltransferase 3
Database Link:	<a href="#">Entrez Gene 8703 Human</a> <a href="#">O60512</a>



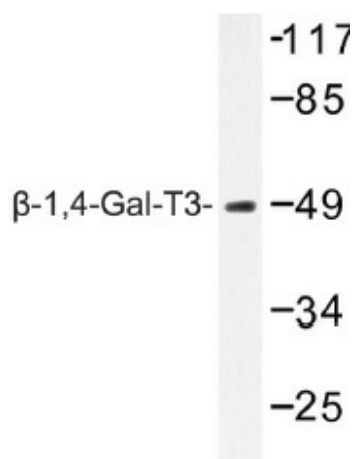
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**Background:**

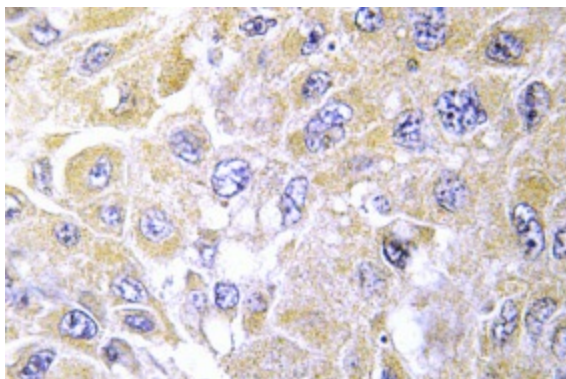
Several oligosaccharide structures and protein glycoconjugate types are found in nature. Homologous glycosyltransferase (GT) gene families catalyze the formation of glycosidic linkages. The  $\beta$ -1,3 galactosyltransferase( $\beta$ 3GalT) gene family encodes a set of type II transmembrane glycoproteins that are catalytically diverse and use different donor substrates (UDP-galactose and UDP-N-acetylglucosamine) and different acceptor sugars (N-acetylglucosamine, galactose, N-acetylgalactosamine ) to catalyze the addition of an activated monosaccharide to a terminal lactose. The protein coding sequences for  $\beta$ -1,3-Gal-T genes comprise a single exon and are distantly related to the Drosophila Brainiac gene. The  $\beta$ -1,4-galactosyltransferase ( $\beta$ 4GalT) gene family encodes type II membrane-bound glycoproteins that show exclusive specificity for the donor substrate, UDP-galactose.  $\beta$ -1,4Gal-T genes transfer galactose in a  $\beta$ -1,4 linkage to similar acceptor sugars; each gene has a distinct function in the biosynthesis of different glycoconjugates and saccharide structures.

**Synonyms:**

Beta-1,4-GalTase 3, Beta4Gal-T3, b4Gal-T3

**Product images:**


Western blot (WB) analysis of  $\beta$ -1, 4-Gal-T3 antibody (Cat.-No.: [AP01385PU-N]) in extracts from Jurkat cells.



Immunohistochemistry (IHC) analysis of  $\beta$ -1, 4-Gal-T3 antibody (Cat.-No.: [AP01385PU-N]) in paraffin-embedded human liver carcinoma tissue.