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Rabbit Anti-B3GALNT1 antibody

SL10438R

Product Name:	B3GALNT1
Chinese Name:	β1，3半乳糖转移酶3抗体
Alias:	3-galactosyltransferase 3; 3-GalNAc-T1; 3-GalTase 3; 3-N-acetylgalactosaminyltransferase 1; 3-N-acetylgalactosaminyltransferase; b3Gal T3; b3Gal-T3; B3galnt1; B3GALT3; B3GL1_HUMAN; Beta 1,3 galactosyltransferase 3; Beta 1,3 GalTase 3; beta 1,3 N acetylgalactosaminyltransferase 1 (globoside blood group); Beta 3 GalNAc T1; Beta 3 Gx T3; Beta-1; Beta-3-Gx-T3; beta3Gal T3; Beta3Gal-T3; Beta3GalT3; brainiac1; Galactosylgalactosylglucosylceramide beta D acetyl galactosaminyltransferase; Galactosylgalactosylglucosylceramide beta-D-acetyl-galactosaminyltransferase; galT3; Gb4Cer; GLCT3; GLOB; Globoside synthase; globotriaosylceramide 3 beta N acetylgalactosaminyltransferase; P antibody P antigen synthase; P blood group globoside; P1 antibody UDP Gal:betaGlcNAc beta 1,3 galactosyltransferase 1; UDP Gal:betaGlcNAc beta 1,3 galactosyltransferase, polypeptide 3 (Globoside blood group); UDP GalNAc:beta 1,3 N acetylgalactosaminyltransferase 1; UDP GalNAc:betaGlcNAc beta 1,3 galactosaminyltransferase, polypeptide 1 (Globoside blood group); UDP N acetylgalactosamine:globotriaosylceramide beta 1,3 N acetylgalactosaminyltransferase; UDP-GalNAc:beta-1; UDP-N-acetylgalactosamine:globotriaosylceramide beta-1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	39kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human B3GALNT1:231-331/331

Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 beta3GalT genes (beta3GalT1-3, beta3GalT5). The encoded protein of this gene does not use N-acetylglucosamine as an acceptor sugar at all. Multiple transcript variants that are alternatively spliced in the 5' UTR have been described; they all encode the same protein. **Function:** Transfers N-acetylgalactosamine onto globotriaosylceramide. **Subcellular Location:** Golgi apparatus membrane; Single-pass type II membrane protein. **Tissue Specificity:** Higher expression in heart and brain, and to a lesser extent in lung, placenta, kidney and testis. Lower expression in liver, spleen and stomach. **Similarity:** Belongs to the glycosyltransferase 31 family. **SWISS:** O75752 **Gene ID:** 8706 **Database links:** Entrez Gene: 8706Human

	Entrez Gene: 26879Mouse Entrez Gene: 310508Rat Omim: 603094Human SwissProt: O75752Human SwissProt: Q920V1Mouse SwissProt: Q6AY39Rat Unigene: 418062Human Unigene: 153710Mouse Unigene: 3666Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.