

**B3GALT2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14494b**

### Specification

#### B3GALT2 Antibody (C-term) - Product Information

Application	WB, E
Primary Accession	<a href="#">O43825</a>
Other Accession	<a href="#">O54905</a> , <a href="#">NP_003774.1</a>
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	49213
Antigen Region	394-422

#### B3GALT2 Antibody (C-term) - Additional Information

Gene ID 8707

#### Other Names

Beta-1, 3-galactosyltransferase 2, Beta-1, 3-GalTase 2, Beta3Gal-T2, Beta3GALT2, 241-, UDP-galactose:2-acetamido-2-deoxy-D-glucose 3beta-galactosyltransferase 2, B3GALT2

#### Target/Specificity

This B3GALT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 394-422 amino acids from the C-terminal region of human B3GALT2.

#### Dilution

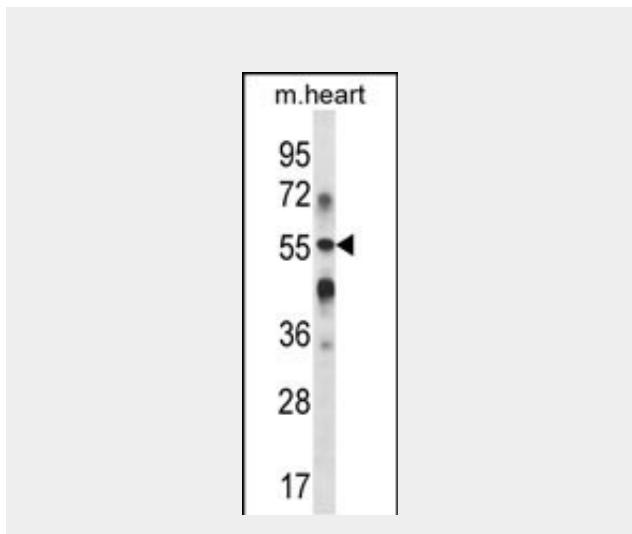
WB~1:1000

#### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



B3GALT2 Antibody (C-term) (Cat. #AP14494b) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the B3GALT2 antibody detected the B3GALT2 protein (arrow).

#### B3GALT2 Antibody (C-term) - 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.

**Precautions**

B3GALT2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**B3GALT2 Antibody (C-term) - Protein Information**

**Name** B3GALT2 ([HGNC:917](#))

**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.

**Cellular Location**

Golgi apparatus membrane; Single- pass type II membrane protein

**Tissue Location**

Detected in heart and brain.

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). This gene encodes a protein that functions in N-linked glycoprotein glycosylation and shows strict donor substrate specificity for UDP-galactose.

**B3GALT2 Antibody (C-term) - References**

Lamesch, P., et al. Genomics 89(3):307-315(2007)  
Sood, R., et al. Genomics 73(2):211-222(2001)  
Amado, M., et al. Biochim. Biophys. Acta 1473(1):35-53(1999)  
Amado, M., et al. J. Biol. Chem. 273(21):12770-12778(1998)  
Kolbinger, F., et al. J. Biol. Chem. 273(1):433-440(1998)

**B3GALT2 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)