10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

B4GALT2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9473b

Specification

B4GALT2 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	O60909
Other Accession	Q9Z2Y2, Q80WN9
Reactivity	**Human, Mouse**
Predicted	**Hamster**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**41972**
Antigen Region	**290-318**

B4GALT2 Antibody (C-term) - Additional Information

Gene ID 8704

Other Names
Beta-1, 4-galactosyltransferase 2, Beta-1, 4-GalTase 2, Beta4Gal-T2, b4Gal-T2, 241-, UDP-Gal:beta-GlcNAc beta-1, 4-galactosyltransferase 2, UDP-galactose:beta-N-acetylglucosamine beta-1, 4-galactosyltransferase 2, Lactose synthase A protein, N-acetyllactosamine synthase, Nal synthase, Beta-N-acetylglucosaminylglycopeptide beta-1, 4-galactosyltransferase, Beta-N-acetylglucosaminyl-glycolipid beta-1, 4-galactosyltransferase, 241-, B4GALT2

Target/Specificity
This B4GALT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 290-318 amino acids from the C-terminal region of human B4GALT2.

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.

Precautions
B4GALT2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

B4GALT2 Antibody (C-term) - Protein Information

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Name B4GALT2 (HGNC:925)

Function Responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids (PubMed:9405390). Can produce lactose (PubMed:9405390).

Cellular Location
Golgi apparatus, Golgi stack membrane; Single- pass type II membrane protein. Note=Trans cisternae of Golgi stack

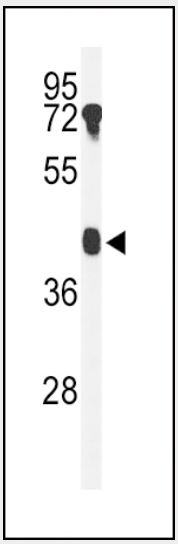
Tissue Location
Weakly expressed in various tissues. Highest expression in prostate, testis, ovary, intestine, muscle, and in fetal brain.

B4GALT2 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 Cytomety
- Cell Culture

B4GALT2 Antibody (C-term) - Images



Western blot analysis of B4GALT2 Antibody (C-term) (Cat. #AP9473b) in mouse testis tissue lysates (35ug/lane). B4GALT2 (arrow) was detected using the purified Pab.

B4GALT2 Antibody (C-term) - Background

B4GALT2 is one of 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. The enzyme synthesizes N-acetyllactosamine in glycolipids and glycoproteins. Its substrate specificity is affected by alpha-lactalbumin but it is not expressed in lactating mammary tissue.

B4GALT2 Antibody (C-term) - References

?Brockhausen, I., et al. Biochim. Biophys. Acta 1790(10):1244-1257(2009)
?Zhou, J., et al. J. Biochem. 143(4):547-554(2008)
?Jiang, J., et al. Biochem. Biophys. Res. Commun. 358(1):41-46(2007)
?Sasaki, N., et al. Biochem. Biophys. Res. Commun. 333(1):131-137(2005)