

B4GALT2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58011

Specification

B4GALT2 Polyclonal Antibody - Product Information

Application Primary Accession

Reactivity Host Clonality Calculated MW Physical State

Immunogen

Epitope Specificity

Isotype **Purity**

affinity purified by Protein A

Rat, Pig, Dog, Bovine

WB, IHC-P, IHC-F, IF, ICC, E

Rabbit Polyclonal 42 KDa Liquid

KLH conjugated synthetic peptide derived

from human B4GALT2

201-300/372

IqG

Buffer

SUBCELLULAR LOCATION

SIMILARITY

Important Note

0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

Golgi apparatus

Belongs to the glycosyltransferase 7

amily.

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

This gene is one of seven beta-1,4-galactosyltransferase (beta4GalT) genes. They encode 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 encoded by this gene synthesizes N-acetyllactosamine in glycolipids and glycoproteins. Its substrate specificity is affected by alpha-lactalbumin but it is not expressed in lactating mammary tissue. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2011]

B4GALT2 Polyclonal Antibody - Additional Information

Gene ID 8704

Other Names

Beta-1, 4-galactosyltransferase 2, Beta-1, 4-GalTase 2, Beta4Gal-T2, b4Gal-T2, 2.4.1.-, Beta-N-acetylglucosaminyl-glycolipid beta-1, 4-galactosyltransferase,



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Beta-N-acetylglucosaminylglycopeptide beta-1, 4-galactosyltransferase, 2.4.1.38, Lactose synthase A protein, 2.4.1.22, N-acetyllactosamine synthase, 2.4.1.90, Nal synthase, UDP-Gal:beta-GlcNAc beta-1, 4-galactosyltransferase 2, UDP-galactose:beta-N-acetylglucosamine beta-1, 4-galactosyltransferase 2, B4GALT2 (HGNC:925)

Target/Specificity

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

Dilution

WB~~1:1000/>class ="dilution IHC-P">IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

B4GALT2 Polyclonal Antibody - Protein Information

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.

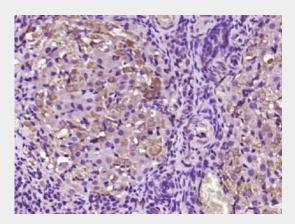
B4GALT2 Polyclonal Antibody - Protocols

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 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (Rat ovary); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (B4GALT2) Polyclonal Antibody, Unconjugated (bs-23826R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.