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B4GALNT3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13658c

Specification

B4GALNT3 Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q6L9W6
Other Accession	NP_775864.3
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**114975**
Antigen Region	**555-584**

B4GALNT3 Antibody (Center) - Additional Information

Gene ID 283358

Other Names
Beta-1, 4-N-acetylgalactosaminyltransferase 3, B4GalNAcT3, Beta4GalNAc-T3, Beta4GalNAcT3, Beta-1, 4-N-acetylgalactosaminyltransferase III, N-acetyl-beta-glucosaminyl-glycoprotein 4-beta-N-acetylgalactosaminyltransferase 2, NGalNAc-T2, B4GALNT3

Target/Specificity
This B4GALNT3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 555-584 amino acids from the Central region of human B4GALNT3.

Dilution
WB~~1:1000
IHC-P~~1:10~50

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
B4GALNT3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

B4GALNT3 Antibody (Center) - Protein Information

Name B4GALNT3

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Function Transfers N-acetylgalactosamine (GalNAc) from UDP-GalNAc to N-acetylglucosamine-beta-benzyl with a beta-1,4-linkage to form N,N'- diacetyllactosediamine, GalNAc-beta-1,4-GlcNAc structures in N-linked glycans and probably O-linked glycans. Mediates the N,N'- diacetyllactosediamine formation on gastric mucosa.

Cellular Location
Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Note=Localizes to apical Golgi

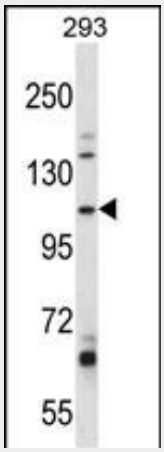
Tissue Location
Highly expressed in testis, colon and stomach. Weakly expressed in other tissues.

B4GALNT3 Antibody (Center) - Protocols

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

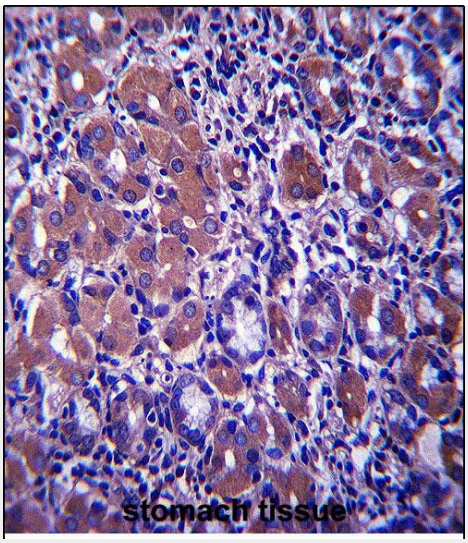
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

B4GALNT3 Antibody (Center) - Images



B4GALNT3 Antibody (Center) (Cat. #AP13658c) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the B4GALNT3 antibody detected the B4GALNT3 protein (arrow).

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B4GALNT3 Antibody (Center) (Cat. #AP13658c)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of B4GALNT3 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

B4GALNT3 Antibody (Center) - Background

B4GALNT3 transfers N-acetylgalactosamine (GalNAc) onto glucosyl residues to form N,N-prime-diacetyllactosediamine (LacdiNAc, or LDN), a unique terminal structure of cell surface N-glycans (Ikehara et al., 2006 [PubMed 16728562]).[supplied by OMIM].

B4GALNT3 Antibody (Center) - References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Arking, D.E., et al. PLoS ONE 5 (3), E9879 (2010) :
Miller, E., et al. J. Biol. Chem. 283(4):1985-1991(2008)
Huang, J., et al. Mol. Cancer Res. 5(6):543-552(2007)
Ikehara, Y., et al. Glycobiology 16(9):777-785(2006)