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B4GALNT3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13658c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q6L9W6
Other Accession	NP_775864.3
Reactivity	Human
Predicted	Rabbit, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33356
Calculated MW	114975
Antigen Region	555-584

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~~1:100~500 E~~Use at an assay dependent concentration.
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.

Protein Information

Name	B4GALNT3

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.

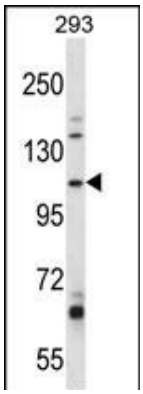
Background

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].

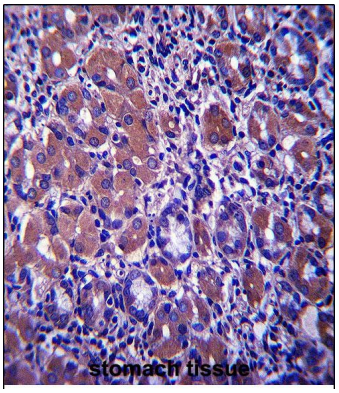
References

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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)

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).



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.