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

GALNT6 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16816b

Product Information

Application	WB, E
Primary Accession	Q8NCL4
Other Accession	Q5EA41, NP_009141.2
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36515
Calculated MW	71159
Antigen Region	552-579

Additional Information

Gene ID	11226
Other Names	Polypeptide N-acetylgalactosaminyltransferase 6, Polypeptide GalNAc transferase 6, GalNAc-T6, pp-GaNTase 6, Protein-UDP acetylgalactosaminyltransferase 6, UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 6, GALNT6
Target/Specificity	This GALNT6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 552-579 amino acids from the C-terminal region of human GALNT6.
Dilution	WB~~1:1000 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	GALNT6 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GALNT6

Function	Catalyzes the initial reaction in O-linked oligosaccharide biosynthesis, the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor (PubMed:10464263, PubMed:31932717). May participate in synthesis of oncofetal fibronectin (PubMed:10464263). Has activity toward MUC1A, MUC2, EA2 and fibronectin peptides (PubMed:10464263). Glycosylates FGF23 (PubMed:31932717).
Cellular Location	Golgi apparatus membrane {ECO:0000250|UniProtKB:Q14435}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q14435}
Tissue Location	Expressed in placenta and trachea. Weakly expressed in brain and pancreas. Expressed in fibroblast. Weakly or not expressed in lung, liver, muscle, kidney, spleen, thymus, prostate, testis, ovary, intestine, colon, leukocyte, stomach, thyroid, spinal cord, lymph node, trachea, adrenal gland and bone marrow

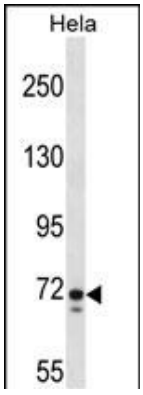
Background

This gene encodes a member of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAc-T) family of enzymes. GalNAc-Ts initiate mucin-type O-linked glycosylation in the Golgi apparatus by catalyzing the transfer of GalNAc to serine and threonine residues on target proteins. They are characterized by an N-terminal transmembrane domain, a stem region, a lumenal catalytic domain containing a GT1 motif and Gal/GalNAc transferase motif, and a C-terminal ricin/lectin-like domain. GalNAc-Ts have different, but overlapping, substrate specificities and patterns of expression. The encoded protein is capable of glycosylating fibronectin peptide in vitro and is expressed in a fibroblast cell line, indicating that it may be involved in the synthesis of oncofetal fibronectin.

References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Gomes, J., et al. J. Histochem. Cytochem. 57(1):79-86(2009)
Patani, N., et al. Cancer Genomics Proteomics 5(6):333-340(2008)
Argueso, P., et al. Invest. Ophthalmol. Vis. Sci. 44(1):86-92(2003)
Bennett, E.P., et al. J. Biol. Chem. 274(36):25362-25370(1999)

Images



GALNT6 Antibody (C-term) (Cat. #AP16816b) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the GALNT6 antibody detected the GALNT6 protein (arrow).