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GALNT14 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18637a

Product Information

Application	WB, E
Primary Accession	Q96FL9
Other Accession	NP_078848.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37322
Calculated MW	64321
Antigen Region	39-66

Additional Information

Gene ID	79623
Other Names	Polypeptide N-acetylgalactosaminyltransferase 14, Polypeptide GalNAc transferase 14, GalNAc-T14, pp-GaNTase 14, Protein-UDP acetylgalactosaminyltransferase 14, UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 14, GALNT14
Target/Specificity	This GALNT14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 39-66 amino acids from the N-terminal region of human GALNT14.
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	GALNT14 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GALNT14
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. Displays activity toward mucin-derived peptide substrates such as Muc2, Muc5AC, Muc7, and Muc13 (-58). May be involved in O-glycosylation in kidney.
Cellular Location	Golgi apparatus membrane; Single- pass type II membrane protein
Tissue Location	Detected in renal tubules (at protein level). Highly expressed in fetal and adult kidney. Widely expressed at low level. Weakly expressed in whole brain, cerebellum, thymus, lung, mammary gland, liver, stomach, small intestine, colon, pancreas, spleen, bladder, uterus, placenta, testis, ovary, skeletal muscle, leukocyte, B-cell, bone marrow, fetal brain, fetal thymus, fetal lung, fetal liver, fetal small intestine, fetal spleen, fetal skeletal and fetus. Detected in renal tubules (at protein level)

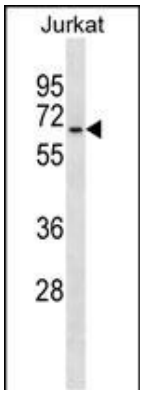
Background

GALNT14 (EC 2.4.1.41) belongs to a large subfamily of glycosyltransferases residing in the Golgi apparatus. GALNT enzymes catalyze the first step in the O-glycosylation of mammalian proteins by transferring N-acetyl-D-galactosamine (GalNAc) to peptide substrates.

References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Stern, H.M., et al. Clin. Cancer Res. 16(5):1587-1596(2010)
Wu, C., et al. BMC Cancer 10, 123 (2010) :
Wu, C., et al. J. Biosci. 34(3):389-395(2009)
Wu, C., et al. Biochem. Biophys. Res. Commun. 357(2):360-365(2007)

Images



GALNT14 Antibody (N-term) (Cat. #AP18637a) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the GALNT14 antibody detected the GALNT14 protein (arrow).