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GALNT3 Rabbit pAb

Catalog # AP99268

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q14435
Other Accession	Q14435
Predicted	Rat, Pig, Human, Mouse, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	72610
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GALNT3
Epitope Specificity	1-100/633
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the glycosyltransferase 2 family. GalNAc-T subfamily. Contains 1 ricin B-type lectin domain.
DISEASE	Defects in GALNT3 are a cause of hyperphosphatemic familial tumoral calcinosis (HFTC) [MIM:211900]. HFTC is a severe autosomal recessive metabolic disorder that manifests with hyperphosphatemia and massive calcium deposits in the skin and subcutaneous tissues. Some patients manifest recurrent, transient, painful swellings of the long bones associated with the radiographic findings of periosteal reaction and cortical hyperostosis and absence of skin involvement.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes UDP-GalNAc transferase 3, a member of the GalNAc-transferases family. This family transfers an N-acetyl galactosamine to the hydroxyl group of a serine or threonine residue in the first step of O-linked oligosaccharide biosynthesis. Individual GalNAc-transferases have distinct activities and initiation of O-glycosylation is regulated by a repertoire of GalNAc-transferases. The protein encoded by this gene is highly homologous to other family members, however the enzymes have different substrate specificities. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	2591
Other Names	GalNAc-T3; HFTC; HFTC1; HHS; GALT3_HUMAN; GALNT3; Polypeptide GalNAc transferase 3 (GalNAc-T3 | pp-GaNTase 3); Protein-UDP acetylgalactosaminyltransferase 3; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 3; 2.4.1.41; polypeptide N-acetylgalactosaminyltransferase 3; UDP-N-acetyl-alpha-D-galactosamine:polypeptide

	N-acetylgalactosaminyltransferase 3 (GalNAc-T3); polypeptide GalNAc transferase 3
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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.

Protein Information

Name	GALNT3
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:16638743, PubMed:31932717, PubMed:8663203, PubMed:9295285). Has activity toward HIV envelope glycoprotein gp120, EA2, MUC2, MUC1A and MUC5AC (PubMed:8663203, PubMed:9295285). Probably glycosylates fibronectin in vivo (PubMed:9295285). Glycosylates FGF23 (PubMed:16638743, PubMed:31932717).
Cellular Location	Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Note=Resides preferentially in the trans and medial parts of the Golgi stack
Tissue Location	Expressed in organs that contain secretory epithelial glands. Highly expressed in pancreas, skin, kidney and testis. Weakly expressed in prostate, ovary, intestine and colon. Also expressed in placenta and lung and fetal lung and fetal kidney

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