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GALNT5 Rabbit pAb

Catalog # AP97452

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q7Z7M9
Other Accession	Q7Z7M9
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	106266
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GALNT5
Epitope Specificity	501-600/940
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.
SUBUNIT	Interacts with EXT2. Does not interact with EXT1, EXTL1 or EXTL3.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAc-T) family of enzymes are substrate-specific proteins that catalyze the transfer of GalNAc (N-acetylgalactosamine) to serine and threonine residues onto various proteins, thereby initiating mucin-type O-linked glycosylation in the Golgi apparatus. GalNAc-T5 (Polypeptide N-acetylgalactosaminyltransferase 5), also known as UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 5, is a 940 amino acid protein that displays enzymatic activity toward EA2 peptide substrate with weaker activity toward Muc2 or Muc 1b substrates. Its N-terminal domain is involved in substrate binding and manganese coordination, while the C-terminal domain is involved in UDP-Gal binding and catalytic reaction. EXT2 directly interacts with GalNAc-T5, suggesting that these proteins may corroborate in glycosaminoglycan synthesis.

Additional Information

Gene ID	11227
Other Names	GALNAC-T5; GALNACT5; 4832424J23; GALT5_HUMAN; GALNT5; Polypeptide GalNAc transferase 5 (GalNAc-T5 | pp-GaNTase 5); Protein-UDP acetylgalactosaminyltransferase 5; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 5; 2.4.1.41; GALT5_MOUSE; GALT5_RAT; polypeptide N-acetylgalactosaminyltransferase 5; UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 5 (GalNAc-T5); polypeptide GalNAc

	transferase 5
Dilution	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	GALNT5
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. Has activity toward EA2 peptide substrate, but has a weak activity toward Muc2 or Muc1b substrates (By similarity).
Cellular Location	Golgi apparatus membrane; Single- pass type II membrane protein

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