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GALNT10 Rabbit pAb

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Catalog # AP55115

Product Information

Application	WB
Primary Accession	Q86SR1
Reactivity	Human
Predicted	Mouse, Rat, Chicken, Pig, Horse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	68992
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GALNT10/GalNAc-T10 151-250/603
Epitope Specificity	
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Golgi apparatus membrane.
SIMILARITY	Belongs to the glycosyltransferase 2 family. GalNAc-T subfamily. Contains 1 ricin B-type lectin domain.
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-acetylgalactosaminyl) to serine and threonine residues of various proteins, thereby initiating mucin-type O-linked glycosylation in the Golgi apparatus. GalNAc-T10 (Polypeptide N-acetylgalactosaminyltransferase 10), also known as UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10, is a 603 amino acid single-pass type II membrane protein that prefers Muc5Ac and EA2 peptide substrates. The 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. GalNAc-T10 is widely expressed, with highest levels found in small intestine. There are four isoforms of GalNAc-T10 that are produced as a result of alternative splicing events.

Additional Information

Gene ID	55568
Other Names	Polypeptide N-acetylgalactosaminyltransferase 10, 2.4.1.41, Polypeptide GalNAc transferase 10, GalNAc-T10, pp-GaNTase 10, Protein-UDP acetylgalactosaminyltransferase 10, UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10, GALNT10

Target/Specificity	Widely expressed. Expressed at high level in small intestine, and at intermediate levels in stomach, pancreas, ovary, thyroid gland and spleen. Weakly expressed in other tissues.
Dilution	WB=1:500-2000
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.

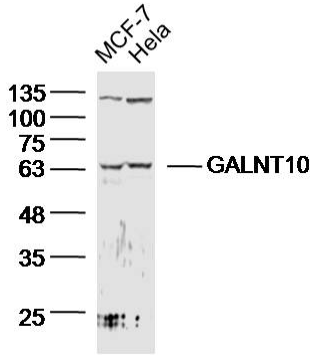
Protein Information

Name	GALNT10
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 Muc5Ac and EA2 peptide substrates.
Cellular Location	Golgi apparatus membrane; Single- pass type II membrane protein
Tissue Location	Widely expressed. Expressed at high level in small intestine, and at intermediate levels in stomach, pancreas, ovary, thyroid gland and spleen. Weakly expressed in other tissues

Background

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-acetylgalactosaminyl) to serine and threonine residues of various proteins, thereby initiating mucin-type O-linked glycosylation in the Golgi apparatus. GalNAc-T10 (Polypeptide N-acetylgalactosaminyltransferase 10), also known as UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10, is a 603 amino acid single-pass type II membrane protein that prefers Muc5Ac and EA2 peptide substrates. The 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. GalNAc-T10 is widely expressed, with highest levels found in small intestine. There are four isoforms of GalNAc-T10 that are produced as a result of alternative splicing events.

Images



Sample:
MCF-7 (human)Cell Lysate at 40 ug
Hela (human)Cell Lysate at 40 ug
Primary: Anti-GALN10(AP55115) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 69 kD
Observed band size: 69 kD