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A4GNT Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54478

Specification

A4GNT Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q9UNA3
Reactivity	**Rat, Pig, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**39 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human A4GNT**
Epitope Specificity	**131-180/340**
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 32 family.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
Alpha 1,4-N-acetylflucosaminyltransferase (Alpha4Gn-T) mediates the biosynthesis of mucin type glycoprotein (O-glycan). Alpha4Gn-T acts as the key enzyme for the formation of the unique glycan GlcNAcalpha1-4Galbeta1-R, and most efficiently transfers N-acetylglucosamine (GlcNAc) to core 2 branched O-glycans. Alpha4Gn-T is a single-pass type II membrane protein associated with the Golgi apparatus and contains the conserved DXD motif involved in catalytic activity. It is expressed in stomach and pancreas, as well as in gastric cancer cells. Alpha4Gn-T is not expressed in peripheral blood cells, making it a useful biomarker for pancreatic cancer. Alpha4Gn-T and Mucin 6 expression is upregulated in the gastric mucosa of H.pylori infected patients, which suggest the involvement of ?Gn-T in defense against H. pylori infection.

A4GNT Polyclonal Antibody - Additional Information

Gene ID 51146

Other Names
Alpha-1, 4-N-acetylglucosaminyltransferase, Alpha4GnT, 2.4.1.-, A4GNT

Target/Specificity
Detected in stomach and pancreas.

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage
Store at -20 ℃ 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 ℃.

A4GNT Polyclonal Antibody - Protein Information

Name A4GNT (HGNC:17968)

Function
Catalyzes the transfer of N-acetylglucosamine (GlcNAc) residues from UDP-N-acetyl-alpha-D-glucosamine donnors to beta (1->4)- linked or beta-(1->3)-linked galactose residues on O-glycans like core 2 branched O-glycans (PubMed:10430883). Necessary for the synthesis of type III mucin which is specifically produced in the stomach, duodenum, and pancreatic duct (PubMed:10430883). May protect against inflammation-associated gastric adenocarcinomas (By similarity).

Cellular Location
Golgi apparatus membrane; Single- pass type II membrane protein

Tissue Location
Detected in stomach and pancreas.

A4GNT Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

A4GNT Polyclonal Antibody - Images