

**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	<a href="#">O9UNA3</a>
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
<b>Purity</b>	
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-acetylglucosaminyltransferase (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 GlcNAc $\alpha$ 1-4Gal $\beta$ 1-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**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_ICC">ICC~~N/A</span><br \><span class = "dilution\_E">E~~N/A</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**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.

**A4GNT Polyclonal Antibody - Protein Information****Name** A4GNT**Function**

Catalyzes the transfer of N-acetylglucosamine (GlcNAc) to core 2 branched O-glycans (PubMed:<a href="http://www.uniprot.org/citations/10430883" target="\_blank">10430883</a>). Necessary for the synthesis of type III mucin which is specifically produced in the stomach, duodenum, and pancreatic duct (PubMed:<a href="http://www.uniprot.org/citations/10430883" target="\_blank">10430883</a>). 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 Cytometry](#)
- [Cell Culture](#)

**A4GNT Polyclonal Antibody - Images**