

Goat Anti-A4GNT / alpha4GNT Antibody
Peptide-affinity purified goat antibody
Catalog # AF2219a**Specification**

Goat Anti-A4GNT / alpha4GNT Antibody - Product Information

Application	WB
Primary Accession	O9UNA3
Other Accession	NP_057245 , 51146
Reactivity	Human
Predicted	Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	39497

Goat Anti-A4GNT / alpha4GNT Antibody - Additional Information**Gene ID** 51146**Other Names**

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

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-A4GNT / alpha4GNT Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-A4GNT / alpha4GNT Antibody - Protein Information**Name** A4GNT**Function**

Catalyzes the transfer of N-acetylglucosamine (GlcNAc) to 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

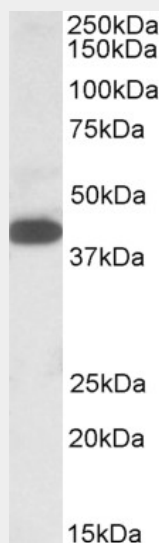
Tissue Location

Detected in stomach and pancreas.

Goat Anti-A4GNT / alpha4GNT 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](#)

Goat Anti-A4GNT / alpha4GNT Antibody - Images

AF2219a (1 µg/ml) staining of K562 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-A4GNT / alpha4GNT Antibody - Background

This gene encodes a protein from the glycosyltransferase 32 family. The enzyme catalyzes the transfer of N-acetylglucosamine (GlcNAc) to core 2 branched O-glycans. It forms a unique glycan, GlcNAc α 1 \rightarrow 4Gal β 1 \rightarrow 6R and is largely associated with the Golgi apparatus membrane.

Goat Anti-A4GNT / alpha4GNT Antibody - References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.
Genetic variation in a4GnT in relation to Helicobacter pylori serology and gastric cancer risk. Zheng Z, et al. Helicobacter, 2009 Oct. PMID 19751437.
Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics,

2008 Mar. PMID 18029348.

Clinical utility of quantitative RT-PCR targeted to alpha1,4-N-acetylglucosaminyltransferase mRNA for detection of pancreatic cancer. Ishizone S, et al. Cancer Sci, 2006 Feb. PMID 16441422.

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.