

For Research Use Only

A4GNT Polyclonal antibody

Catalog Number: 22670-1-AP



Basic Information

Catalog Number: 22670-1-AP	GenBank Accession Number: BC119639	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 900 ug/ml by Nanodrop and 440 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 51146	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q9UNA3	
Isotype: IgG	Full Name: alpha-1,4-N-acetylglucosaminyltransferase	
Immunogen Catalog Number: AG18432	Calculated MW: 340 aa, 39 kDa	
	Observed MW: 34-37 kDa	

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: K-562 cells, mouse pancreas tissue, mouse stomach tissue, rat stomach tissue, L02 cells

IHC: human stomach cancer tissue, human pancreas cancer tissue, rat stomach tissue, mouse stomach tissue, human stomach tissue

Background Information

A4GNT (alpha-1,4-N-acetylglucosaminyltransferase) catalyzes the transfer of N-acetylglucosamine (GlcNAc) to core 2 branched O-glycans, forming a unique glycan structure, GlcNAc α 1 \rightarrow 4Gal β 2 \rightarrow R. The gene is expressed with a bias in certain tissues, particularly in the stomach (RPKM 9.5) and duodenum (RPKM 0.9). Alpha4GnT has been implicated in O-glycan biosynthesis and is thought to have a role in preventing gastric cancer by inhibiting Helicobacter pylori infection and suppressing tumor-promoting inflammation.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

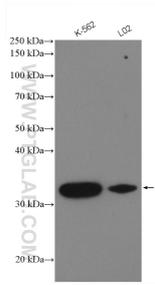
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

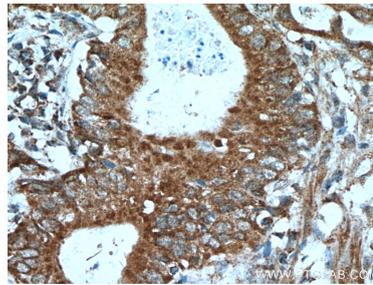
E: proteintech@ptglab.com
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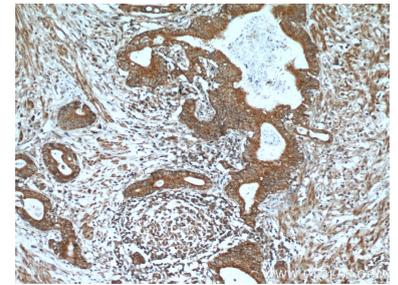
Selected Validation Data



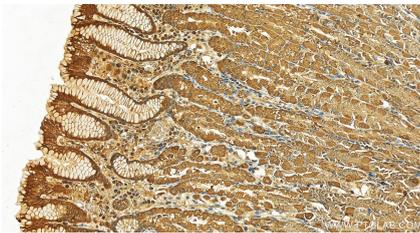
Various lysates were subjected to SDS PAGE followed by western blot with 22670-1-AP (A4GNT antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 22670-1-AP (A4GNT antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 22670-1-AP (A4GNT antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human normal stomach slide using 22670-1-AP (A4GNT antibody) at dilution of 1:300 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).