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[Primary Antibody]

Rabbit Anti-A4GNT antibody

Catalog Number: SL11382R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	A4GNT
Immunogen:	KLH conjugated synthetic peptide derived from human A4GNT: 131-180/340
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Sheep)
Predicted MW.:	39kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	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

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	patients, which suggest the involvement of ?Gn-T in defense against H. pylori infection. **Function:** Necessary for the synthesis of type III mucin. Catalyzes the transfer of N-acetylglucosamine (GlcNAc) to core 2 branched O-glycans. **Subcellular Location:** Golgi apparatus membrane. **Tissue Specificity:** Detected in stomach and pancreas. **Similarity:** Belongs to the glycosyltransferase 32 family. **Database links:** **Entrez Gene:** 51146 Human **SwissProt:** Q9UNA3 Human **Unigene:** 278960 Human

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