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Goat Anti-C2GnT-M (aa 410 to 422) Antibody

Peptide-affinity purified goat antibody
Catalog # AF1473b

Specification

Goat Anti-C2GnT-M (aa 410 to 422) Antibody - Product Information

Application	**WB**
Primary Accession	O95395
Other Accession	NP_004742, 9245
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**50864**

Goat Anti-C2GnT-M (aa 410 to 422) Antibody - Additional Information

Gene ID 9245

Other Names
Beta-1, 3-galactosyl-O-glycosyl-glycoprotein beta-1, 6-N-acetylglucosaminyltransferase 3, 2.4.1.102, 2.4.1.150, C2GnT-mucin type, C2GnT-M, hC2GnT-M, Core 2/core 4 beta-1, 6-N-acetylglucosaminyltransferase, C2/4GnT, GCNT3

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-C2GnT-M (aa 410 to 422) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-C2GnT-M (aa 410 to 422) Antibody - Protein Information

Name GCNT3

Function
Glycosyltransferase that can synthesize all known mucin beta 6 N-acetylglucosaminides. Mediates core 2 and core 4 O-glycan branching, 2 important steps in mucin-type biosynthesis. Has also I-branching enzyme activity by converting linear into branched poly-N- acetyllactosaminoglycans, leading to introduce the blood group I antigen during embryonic development.

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

Tissue Location
Primarily expressed in mucus-secreting tissues. Expressed in colon, kidney, small intestine, trachea, and stomach, where mucin is produced.

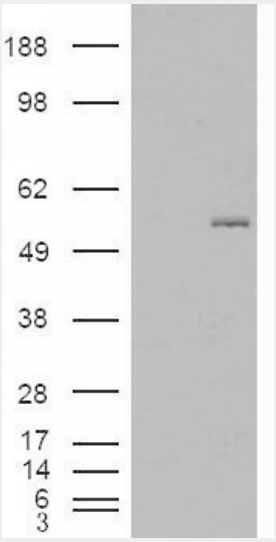
Goat Anti-C2GnT-M (aa 410 to 422) Antibody - Protocols

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

Goat Anti-C2GnT-M (aa 410 to 422) Antibody - Images

AF1473b (0.1 µg/ml) staining of Human Duodenum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



HEK293 overexpressing GCNT3 (RC202007) and probed with AF1473b (mock transfection in first lane), tested by Origene.

Goat Anti-C2GnT-M (aa 410 to 422) Antibody - Background

This gene encodes a member of the N-acetylglucosaminyltransferase family. The encoded protein is a beta-6-N-acetylglucosamine-transferase that catalyzes the formation of core 2 and core 4 O-glycans on mucin-type glycoproteins.

Goat Anti-C2GnT-M (aa 410 to 422) Antibody - References

Mucin biosynthesis: identification of the cis-regulatory elements of human C2GnT-M gene. Tan S, et al. Am J Respir Cell Mol Biol, 2007 Jun. PMID 17303715.
C2GnT-M is downregulated in colorectal cancer and its re-expression causes growth inhibition of colon cancer cells. Huang MC, et al. Oncogene, 2006 Jun 1. PMID 16418723.
Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions. Suzuki Y, et al. Genome Res, 2004 Sep. PMID 15342556.
Mucin biosynthesis: epidermal growth factor downregulates core 2 enzymes in a human airway adenocarcinoma cell line. Beum PV, et al. Am J Respir Cell Mol Biol, 2003 Jul. PMID 12600830.
Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.