

Goat Anti-C2GnT-M (aa 273 to 284) Antibody Peptide-affinity purified goat antibody Catalog # AF1473a

Specification

Goat Anti-C2GnT-M (aa 273 to 284) Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Concentration Isotype Calculated MW WB, E <u>O95395</u> <u>NP_004742</u>, <u>9245</u> Human Goat Polyclonal 100ug/200ul IgG 50864

Goat Anti-C2GnT-M (aa 273 to 284) 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

Dilution WB~~1:1000 E~~N/A

Format

0.5 mg lgG/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 273 to 284) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-C2GnT-M (aa 273 to 284) 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. Also has Ibranching 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 273 to 284) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Goat Anti-C2GnT-M (aa 273 to 284) Antibody - Images

250kDa 150kDa 100kDa 75kDa 50kDa 37kDa 25kDa 20kDa

AF1473a (0.3 μ g/ml) staining of human lymph node lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.





HEK293 overexpressing GCNT3 (RC202007) and probed with AF1473a (mock transfection in first lane), tested by Origene.

Goat Anti-C2GnT-M (aa 273 to 284) 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 273 to 284) 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.