

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

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

Application	WB
Primary Accession	<a href="#">O95395</a>
Other Accession	<a href="#">NP_004742</a> , <a href="#">9245</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	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

**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 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. Has also I-branching enzyme activity by converting linear into branched poly-N- acetylglucosaminoglycans, 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

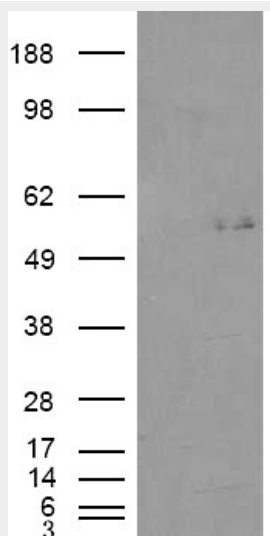
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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



AF1473a (0.3 µg/ml) staining of human lymph node lysate (35 µg 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.