

**GCNT3 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10975b****Specification**

---

**GCNT3 Antibody (C-term) - Product Information**

Application	FC, IHC-P, WB,E
Primary Accession	<a href="#">O95395</a>
Other Accession	<a href="#">O8CH87</a> , <a href="#">Q5JCT0</a> , <a href="#">NP_004742.1</a>
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	50864
Antigen Region	390-418

**GCNT3 Antibody (C-term) - Additional Information****Gene ID** 9245**Other Names**

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

**Target/Specificity**

This GCNT3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 390-418 amino acids from the C-terminal region of human GCNT3.

**Dilution**

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GCNT3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**GCNT3 Antibody (C-term) - 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 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

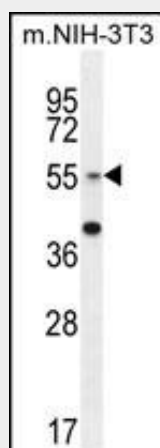
**Tissue Location**

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

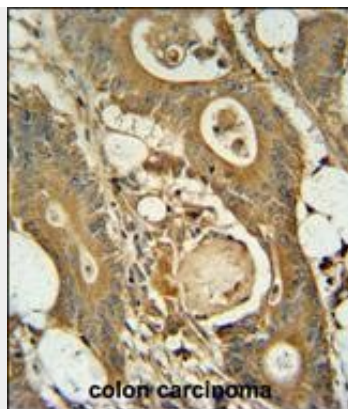
**GCNT3 Antibody (C-term) - Protocols**

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

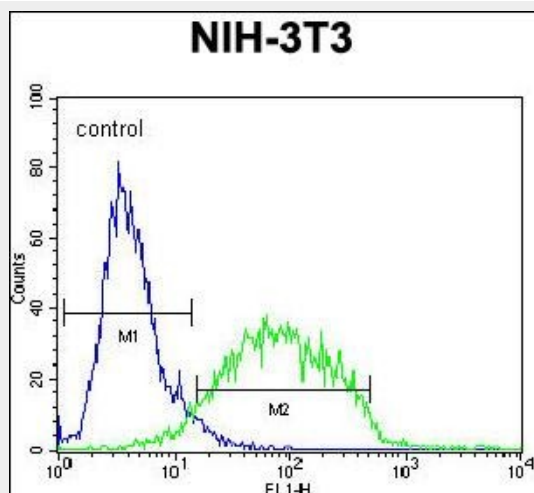
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**GCNT3 Antibody (C-term) - Images**

GCNT3 Antibody (C-term) (Cat. #AP10975b) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane). This demonstrates the GCNT3 antibody detected the GCNT3 protein (arrow).



GCNT3 antibody (C-term) (Cat. #AP10975b) immunohistochemistry analysis in formalin fixed and paraffin embedded human colon carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GCNT3 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



GCNT3 Antibody (C-term) (Cat. #AP10975b) flow cytometric analysis of NIH-3T3 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### GCNT3 Antibody (C-term) - 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.

### GCNT3 Antibody (C-term) - References

- Tan, S., et al. Am. J. Respir. Cell Mol. Biol. 36(6):737-745(2007)
- Lamesch, P., et al. Genomics 89(3):307-315(2007)
- Huang, M.C., et al. Oncogene 25(23):3267-3276(2006)
- Beum, P.V., et al. Am. J. Respir. Cell Mol. Biol. 29(1):48-56(2003)
- Schwientek, T., et al. J. Biol. Chem. 274(8):4504-4512(1999)