

**GCNT1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17151c****Specification**

---

**GCNT1 Antibody (Center) - Product Information**

|                   |   |
|-------------------|---|
| Application       | WB,E  |
| Primary Accession | <a href="#">Q02742</a>  |
| Other Accession   | <a href="#">NP_001091103.1</a> , <a href="#">NP_001091102.1</a> |
| Reactivity        | Human   |
| Host              | Rabbit  |
| Clonality         | Polyclonal  |
| Isotype           | Rabbit IgG  |
| Calculated MW     | 49799   |
| Antigen Region    | 63-91   |

**GCNT1 Antibody (Center) - Additional Information****Gene ID** 2650**Other Names**

Beta-1, 3-galactosyl-O-glycosyl-glycoprotein beta-1, 6-N-acetylglucosaminyltransferase, Core 2-branching enzyme, Core2-GlcNAc-transferase, C2GNT, Core 2 GNT, GCNT1, NACGT2

**Target/Specificity**

This GCNT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63-91 amino acids from the Central region of human GCNT1.

**Dilution**

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**

GCNT1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**GCNT1 Antibody (Center) - Protein Information****Name** GCNT1

## Synonyms NACGT2

**Function** Glycosyltransferase that catalyzes the transfer of an N- acetylglucosamine (GlcNAc) moiety in beta1-6 linkage from UDP-GlcNAc onto mucin-type core 1 O-glycan to form the branched mucin-type core 2 O-glycan (PubMed:[1329093](#), PubMed:[23027862](#)). The catalysis is metal ion-independent and occurs with inversion of the anomeric configuration of sugar donor (By similarity). Selectively involved in synthesis of mucin-type core 2 O-glycans that serve as scaffolds for the display of selectin ligand sialyl Lewis X epitope by myeloid cells, with an impact on homeostasis and recruitment to inflammatory sites (By similarity). Can also act on glycolipid substrates. Transfers GlcNAc moiety to GalGb4Cer globosides in a reaction step to the synthesis of stage- specific embryonic antigen 1 (SSEA-1) determinant (By similarity). Can use Galbeta1-3GalNAcalpha1- and Galbeta1-3GalNAcbeta1- oligosaccharide derivatives as acceptor substrates (By similarity).

## Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein. Note=Also detected in the trans-Golgi network

## Tissue Location

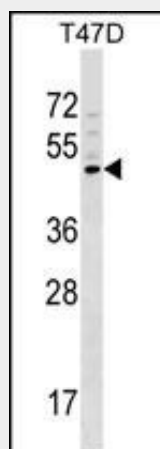
Highly expressed in activated T-lymphocytes and myeloid cells

## GCNT1 Antibody (Center) - 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](#)

## GCNT1 Antibody (Center) - Images



GCNT1 Antibody (Center) (Cat. #AP17151c) western blot analysis in T47D cell line lysates (35ug/lane). This demonstrates the GCNT1 antibody detected the GCNT1 protein (arrow).

## GCNT1 Antibody (Center) - Background

This gene is a member of the beta-1,6-N-acetylglucosaminyltransferase gene family. It is essential to the formation of Gal beta 1-3(GlcNAc beta 1-6)GalNAc structures and the core 2 O-glycan branch. The gene coding this enzyme was originally mapped to 9q21, but was later localized to 9q13. Multiple alternatively spliced variants, encoding the same protein, have been identified.

#### **GCNT1 Antibody (Center) - References**

Hatakeyama, S., et al. Int. J. Cancer 127(5):1052-1059(2010)  
Brockhausen, I., et al. Biochim. Biophys. Acta 1790(10):1244-1257(2009)  
St Hill, C.A., et al. BMC Cancer 9, 79 (2009) :  
Nagaraj, S., et al. Pancreas 37(3):321-327(2008)  
Julien, S., et al. J. Immunol. 179(9):5701-5710(2007)