

**GCNT1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17151c****Specification**

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**GCNT1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q02742](#)**GCNT1 Antibody (Center) Blocking Peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GCNT1 Antibody (Center) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/1329093" target="\_blank">1329093</a>, PubMed:<a href="http://www.uniprot.org/citations/23027862" target="\_blank">23027862</a>). 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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**GCNT1 Antibody (Center) Blocking Peptide - Images****GCNT1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)