

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

GCNT1 Antibody (Center) Blocking Peptide - Product InformationPrimary 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: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) 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)