

ST6GALNAC1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12398a**Specification**

ST6GALNAC1 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q9NSC7](#)**ST6GALNAC1 Antibody (N-term) Blocking peptide - Additional Information**

Gene ID 55808

Other Names

Alpha-N-acetylgalactosaminide alpha-2, 6-sialyltransferase 1, GalNAc alpha-2, 6-sialyltransferase I, ST6GalNAc I, ST6GalNAcI, Sialyltransferase 7A, SIAT7-A, ST6GALNAC1, SIAT7A

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.

ST6GALNAC1 Antibody (N-term) Blocking peptide - Protein InformationName ST6GALNAC1 ([HGNC:23614](#))

Synonyms SIAT7A

Function

Protein sialyltransferase specifically expressed in goblet cells that plays a key role in intestinal host-commensal homeostasis (PubMed: [35303419](http://www.uniprot.org/citations/35303419)). Conjugates sialic acid with an alpha-2-6 linkage to N-acetylgalactosamine (GalNAc) glycan chains linked to serine or threonine in glycoproteins (PubMed: [16319059](http://www.uniprot.org/citations/16319059), PubMed: [35303419](http://www.uniprot.org/citations/35303419)). Catalyzes the formation of the sialyl-Tn (S-Tn) antigen, an antigen found in intestinal goblet cells, as well as ulcerative colitis (UC) and various cancers (PubMed: [16319059](http://www.uniprot.org/citations/16319059), PubMed: [35303419](http://www.uniprot.org/citations/35303419)). Protein sialylation in goblet cells is essential for mucus integrity and is required to protect the intestinal mucus against excessive bacterial proteolytic degradation (PubMed: [35303419](http://www.uniprot.org/citations/35303419)).

Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein

Tissue Location

Expression is restricted to the gastrointestinal tract (PubMed:16319059). Highly expressed in goblet cells (PubMed:35303419). Also expressed in various tumor cells (PubMed:16319059).

ST6GALNAC1 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ST6GALNAC1 Antibody (N-term) Blocking peptide - Images**ST6GALNAC1 Antibody (N-term) Blocking peptide - Background**

Glycosylation of proteins affects cell-cell interaction, interactions with the matrix, and the functions of intracellular molecules. ST6GALNAC1 transfers a sialic acid, N-acetylneuraminic acid (NeuAc), in an alpha-2,6 linkage to O-linked GalNAc residues. The cancer-associated sialyl-Tn (sTn) antigen is formed by ST6GALNAC1-catalyzed sialylation of GalNAc residues on mucins (Ikehara et al., 1999 [PubMed 10536037]; Sewell et al., 2006 [PubMed 16319059]).

ST6GALNAC1 Antibody (N-term) Blocking peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) ; Hassinen, A., et al. J. Biol. Chem. 285(23):17771-17777 (2010) ; Patani, N., et al. Cancer Genomics Proteomics 5(6):333-340 (2008) ; Olsen, J.V., et al. Cell 127(3):635-648 (2006) ; Olsen, J.V., et al. Cell 127(3):635-648 (2006)