

ST6GALNAC5 Antibody(C-term) Blocking peptide
Synthetic peptide
Catalog # BP19473b**Specification**

ST6GALNAC5 Antibody(C-term) Blocking peptide - Product InformationPrimary Accession [Q9BVH7](#)**ST6GALNAC5 Antibody(C-term) Blocking peptide - Additional Information**

Gene ID 81849

Other Names

Alpha-N-acetylgalactosaminide alpha-2, 6-sialyltransferase 5, 2499-, GD1 alpha synthase, GalNAc alpha-2, 6-sialyltransferase V, ST6GalNAc V, ST6GalNAcV, Sialyltransferase 7E, SIAT7-E, ST6GALNAC5, SIAT7E

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.

ST6GALNAC5 Antibody(C-term) Blocking peptide - Protein Information

Name ST6GALNAC5

Synonyms SIAT7E

Function

Predominantly catalyzes the biosynthesis of ganglioside GD1alpha from GM1b in the brain, by transferring the sialyl group (N-acetyl-alpha-neuraminyl or NeuAc) from CMP-NeuAc to the GalNAc residue on the NeuAc-alpha-2,3-Gal-beta-1,3-GalNAc sequence of GM1b (PubMed:12668675). GD1alpha is a critical molecule in the communication and interaction between neuronal cells and their supportive cells, particularly in brain tissues, and functions as an adhesion molecule in the process of metastasis (By similarity). Also shows activity towards sialyl Lc4Cer (N-acetyl-alpha-neuraminosyl-(2->3)-beta-D-galactosyl-(1->3)-N-acetyl-beta-D-glucosaminyl-(1->3)-beta-D-galactosyl-(1->4)-beta-D-glucosyl-(1->1')-N-acyl-sphing-4-ene) generating disialyl Lc4Cer, which can lead to the synthesis of disialyl Lewis a (Le(a)), suggested to be a cancer-associated antigen (PubMed:12668675).

Cellular Location

Golgi apparatus membrane; Single- pass type II membrane protein

ST6GALNAC5 Antibody(C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ST6GALNAC5 Antibody(C-term) Blocking peptide - Images

ST6GALNAC5 Antibody(C-term) Blocking peptide - Background

ST6GALNAC5 belongs to a family of sialyltransferases that modify proteins and ceramides on the cell surface to alter cell-cell or cell-extracellular matrix interactions (Tsuchida et al., 2003 [PubMed 12668675]).

ST6GALNAC5 Antibody(C-term) Blocking peptide - References

Rose, J. Phd, et al. Mol. Med. (2010) In press :Harduin-Lepers, A., et al. Glycobiology 15(8):805-817(2005)Tsuchida, A., et al. J. Biol. Chem. 278(25):22787-22794(2003)Ikehara, Y., et al. FEBS Lett. 463 (1-2), 92-96 (1999) :Okajima, T., et al. J. Biol. Chem. 274(43):30557-30562(1999)