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SIA7C Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP5584b

Specification

SIA7C Antibody (C-term) Blocking peptide - Product Information

Primary Accession	Q8NDV1
Other Accession	NP_694541.1

SIA7C Antibody (C-term) Blocking peptide - Additional Information

Gene ID 256435

Other Names
Alpha-N-acetylgalactosaminide alpha-2, 6-sialyltransferase 3, 2499-, GalNAc alpha-2, 6-sialyltransferase III, ST6GalNAc III, ST6GalNAcIII, STY, Sialyltransferase 7C, SIAT7-C, ST6GALNAC3, SIAT7C

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.

SIA7C Antibody (C-term) Blocking peptide - Protein Information

Name ST6GALNAC3

Synonyms SIAT7C

Function
Transfers 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 glycoproteins and glycolipids forming an alpha-2,6-linkage. Produces branched type disialyl structures by transfer of a sialyl group onto a GalNAc residue inside the backbone core chains. ST6GalNAcIII prefers glycolipids to glycoproteins, predominantly catalyzing the biosynthesis of ganglioside GD1alpha from GM1b (PubMed:16169874, PubMed:17123352). 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). Sialylation of glycoproteins or glycosphingolipids is very important in tumor development, neuronal development, nerve repair, immunological processes and regulation of hormone sensitivity (PubMed:17123352).

Cellular Location
Golgi apparatus membrane; Single- pass type II membrane protein

Tissue Location
Expressed in brain and kidney (PubMed:16169874, PubMed:17123352). Observed in the epithelium of the proximal tubules, marginal expression was also found in the distal tubules and collecting tubules (PubMed:17123352).

SIA7C Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

SIA7C Antibody (C-term) Blocking peptide - Images

SIA7C Antibody (C-term) Blocking peptide - Background

ST6GALNAC3 belongs to a family of sialyltransferases thattransfer sialic acids from CMP-sialic acid to terminal positions ofcarbohydrate groups in glycoproteins and glycolipids.

SIA7C Antibody (C-term) Blocking peptide - References

Trevino, L.R., et al. Nat. Genet. 41(9):1001-1005(2009)Senda, M., et al. Biochem. J. 402(3):459-470(2007)Tsuchida, A., et al. J. Biochem. 138(3):237-243(2005)Harduin-Lepers, A., et al. Glycobiology 15(8):805-817(2005)Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)