

SIA8C Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5596b**Specification**

SIA8C Antibody (C-term) Blocking peptide - Product Information

Primary Accession [O43173](#)
Other Accession [NP_056963.2](#)

SIA8C Antibody (C-term) Blocking peptide - Additional Information

Gene ID 51046

Other Names

Sia-alpha-2, 3-Gal-beta-1, 4-GlcNAc-R:alpha 2, 8-sialyltransferase, 2499-, Alpha-2, 8-sialyltransferase 8C, Alpha-2, 8-sialyltransferase III, ST8 alpha-N-acetyl-neuraminide alpha-2, 8-sialyltransferase 3, Sialyltransferase 8C, SIAT8-C, Sialyltransferase St8Sia III, ST8SiaIII, ST8SIA3, SIAT8C

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.

SIA8C Antibody (C-term) Blocking peptide - Protein Information

Name ST8SIA3 ([HGNC:14269](#))

Synonyms SIAT8C

Function

Catalyzes the transfer of sialic acid from a CMP-linked sialic acid donor onto a terminal alpha-2,3-, alpha-2,6-, or alpha-2,8- linked sialic acid of an acceptor, such as N-linked oligosaccharides of glycoproteins and glycolipids through alpha-2,8-linkages (PubMed:9826427, PubMed:26192331, PubMed:10766765). Forms oligosialic and polysialic acid on various sialylated N-acetylglucosamine oligosaccharides of glycoproteins, including FETUB N-glycans, a2-HS- glycoprotein (AHSG) and alpha 2,3-sialylated glycosphingolipids, such as alpha 2,3-sialylparagloboside and ganglioside GM3 and to a lesser extent NCAM1 N-glycans (PubMed:9826427, PubMed:10766765). However, it is much more specific to N-linked oligosaccharides

of glycoproteins than glycosphingolipids (By similarity). 2,3-sialylparagloboside serves as the best acceptor substrate among the glycolipids (By similarity). alpha-Neu5Ac-(2->8)-alpha-Neu5Ac-(2->3)-beta-D-Gal-(1->4)-6S-D-GlcNAc and monosialyl and disialyl N-acetyllactosamines are the best acceptor substrates among glycoproteins (PubMed:26192331, PubMed:10766765). May plays critical role in the striatum by mediating the formation of disialylated and trisialylated terminal glycotopes on N- and O-glycans of specific striatal proteins, regulating their distribution in lipid rafts, affecting their interaction with other binding partners, and subsequently modulating striatal functions (By similarity).

Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein

Tissue Location

Expressed in fetal and adult brain and fetal liver.

SIA8C Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SIA8C Antibody (C-term) Blocking peptide - Images**SIA8C Antibody (C-term) Blocking peptide - Background**

ST8SIA3 belongs to a family of sialyltransferases that form sialyl-alpha-2,8-sialyl-R linkages at the nonreducing terminus of glycoconjugates (Lee et al., 1998 [PubMed 9826427]).

SIA8C Antibody (C-term) Blocking peptide - References

Fellay, J., et al. PLoS Genet. 5 (12), E1000791 (2009) ; Kim, S.J., et al. Biochem. Biophys. Res. Commun. 344(4):1057-1064(2006) Angata, K., et al. J. Biol. Chem. 275(24):18594-18601(2000) Lee, Y.C., et al. Arch. Biochem. Biophys. 360(1):41-46(1998) Zeng, G., et al. Gene 187(1):131-134(1997)