

ST8SIA2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6917a**Specification**

ST8SIA2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q92186](#)**ST8SIA2 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 8128

Other Names

Alpha-2, 8-sialyltransferase 8B, 2499-, Sialyltransferase 8B, SIAT8-B, Sialyltransferase St8Sia II, ST8Siall, Sialyltransferase X, STX, ST8SIA2, SIAT8B, STX

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6917a](/products/AP6917a) was selected from the N-term region of human ST8SIA2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

ST8SIA2 Antibody (N-term) Blocking Peptide - Protein InformationName ST8SIA2 ([HGNC:10870](#))**Function**

Catalyzes the transfer of a 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 N-linked glycan acceptor through alpha-2,8- linkages (Probable) (PubMed:[9774483](http://www.uniprot.org/citations/9774483), PubMed:[9054414](http://www.uniprot.org/citations/9054414), PubMed:[10766765](http://www.uniprot.org/citations/10766765), PubMed:[11744634](http://www.uniprot.org/citations/11744634)). Therefore, participates in polysialic acid synthesis on various sialylated N-acetyllactosaminyl oligosaccharides (alpha- 2,3-, alpha-2,6-, or alpha-2,8-linked sialic acid), including NCAM1, NCAM1 N-glycans, FETUB N-glycans, and to a lesser extent sialylparagloboside (SPG) and AHSG, which does not require the initial addition of an alpha 2,8-sialic acid (PubMed:[7559389](http://www.uniprot.org/citations/7559389))

target="_blank">7559389) (Probable). However, does not exhibit sialic acid-polymerase activity (By similarity). Catalyzes polysialic acid synthesis in the hippocampal on NCAM1 and supports neurite outgrowth (PubMed:9054414). ST8SIA2-mediated polysialylation influences on oligodendrocyte differentiation and may promote the integrity of myelin and axons (By similarity).

Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein. Secreted. Cell membrane Note=Also trafficks to the cell surface.

Tissue Location

Highly expressed in fetal brain, kidney and heart and to a much lesser extent in adult heart and thymus

ST8SIA2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ST8SIA2 Antibody (N-term) Blocking Peptide - Images**ST8SIA2 Antibody (N-term) Blocking Peptide - Background**

ST8SIA2 is a type II membrane protein that is thought to catalyze the transfer of sialic acid from CMP-sialic acid to N-linked oligosaccharides and glycoproteins. This protein may be found in the Golgi apparatus and may be involved in the production of polysialic acid, a modulator of the adhesive properties of neural cell adhesion molecule (NCAM1). This protein is a member of glycosyltransferase family 29.

ST8SIA2 Antibody (N-term) Blocking Peptide - References

Arai,M., et.al., Biol. Psychiatry 59 (7), 652-659 (2006)