

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

---

**ST8SIA2 Antibody (N-term) Blocking Peptide - Product Information**Primary 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 Information**Name 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</a>) (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:<a href="http://www.uniprot.org/citations/9054414" target="\_blank">9054414</a>). 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)