

**ST8SIA1 Antibody (N-Term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP22258a****Specification**

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**ST8SIA1 Antibody (N-Term) - Product Information**

Application	WB, FC, E
Primary Accession	<a href="#">O92185</a>
Other Accession	<a href="#">P61642</a>
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	40519

**ST8SIA1 Antibody (N-Term) - Additional Information****Gene ID** 6489**Other Names**

Alpha-N-acetylneuraminide alpha-2, 8-sialyltransferase, 2.4.99.8, Alpha-2, 8-sialyltransferase 8A, Ganglioside GD3 synthase, Ganglioside GT3 synthase, Sialyltransferase 8A, SIAT8-A, Sialyltransferase St8Sia I, ST8Sial, ST8SIA1, SIAT8, SIAT8A

**Target/Specificity**

This ST8SIA1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 53-84 amino acids from human ST8SIA1.

**Dilution**

WB~~1:1000-1:2000

FC~~1:25

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ST8SIA1 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ST8SIA1 Antibody (N-Term) - Protein Information****Name** ST8SIA1 ([HGNC:10869](#))

## Synonyms SIAT8, SIAT8A

**Function** Catalyzes the addition of sialic acid in alpha 2,8-linkage to the sialic acid moiety of the ganglioside GM3 to form ganglioside GD3; gangliosides are a subfamily of complex glycosphingolipids that contain one or more residues of sialic acid (PubMed:[18348864](#), PubMed:[22885356](#), PubMed:[7937974](#), PubMed:[8058740](#), PubMed:[8195250](#), PubMed:[8631981](#), PubMed:[8706663](#)). Can catalyze the addition of a second alpha-2,8-sialic acid to GD3 to form GT3 (PubMed:[8631981](#)). Can use GM1b, GD1a and GT1b as acceptor substrates to synthesize GD1c, GT1a and GQ1b respectively (PubMed:[8706663](#)). Can synthesize unusual tetra- and pentasialylated lactosylceramide derivatives identified as GQ3 (II3Neu5Ac4-Gg2Cer) and GP3 (II3Neu5Ac5-Gg2Cer) in breast cancer cells (PubMed:[22885356](#)).

## Cellular Location

Golgi apparatus membrane; Single- pass type II membrane protein

## Tissue Location

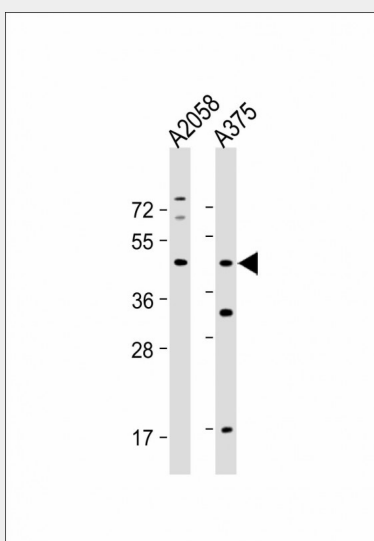
Strongly expressed in melanoma cell lines, adult and fetal brain and to a lesser extent in adult and fetal lung

## ST8SIA1 Antibody (N-Term) - Protocols

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

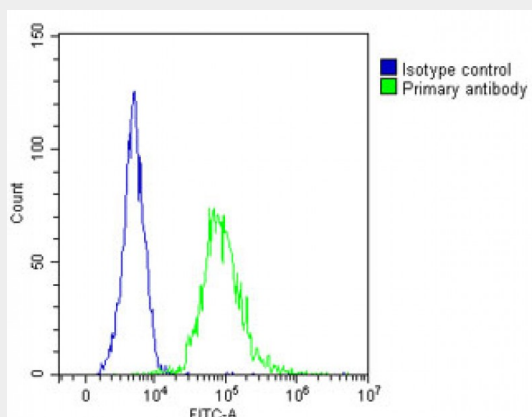
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## ST8SIA1 Antibody (N-Term) - Images



All lanes : Anti-ST8SIA1 Antibody (N-Term) at 1:1000-1:2000 dilution Lane 1: A2058 whole cell lysate Lane 2: A375 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 41 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing A2058 cells stained with AP22258a(green line). The cells were fixed with 2% paraformaldehyde and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at Room temperature. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10, 000 events was performed.

#### ST8SIA1 Antibody (N-Term) - Background

Involved in the production of gangliosides GD3 and GT3 from GM3; gangliosides are a subfamily of complex glycosphingolipids that contain one or more residues of sialic acid.

#### ST8SIA1 Antibody (N-Term) - References

- Sasaki K.,et al.J. Biol. Chem. 269:15950-15956(1994).
- Nara K.,et al.Proc. Natl. Acad. Sci. U.S.A. 91:7952-7956(1994).
- Haraguchi M.,et al.Proc. Natl. Acad. Sci. U.S.A. 91:10455-10459(1994).
- Nakayama J.,et al.J. Biol. Chem. 271:3684-3691(1996).
- Rimoldi S.,et al.Submitted (MAR-2004) to the EMBL/GenBank/DDBJ databases.