

**ST6GALNAC5 Antibody(C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19473b****Specification**

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**ST6GALNAC5 Antibody(C-term) - Product Information**

|                   |                             |
|-------------------|-----------------------------|
| Application       | WB,E                        |
| Primary Accession | <a href="#">O9BVH7</a>      |
| Other Accession   | <a href="#">NP_112227.1</a> |
| Reactivity        | Human                       |
| Host              | Rabbit                      |
| Clonality         | Polyclonal                  |
| Isotype           | Rabbit IgG                  |
| Calculated MW     | 38443                       |
| Antigen Region    | 110-138                     |

**ST6GALNAC5 Antibody(C-term) - Additional Information****Gene ID** 81849**Other Names**

Alpha-N-acetylgalactosaminide alpha-2, 6-sialyltransferase 5, 2499-, GD1 alpha synthase, GalNAc alpha-2, 6-sialyltransferase V, ST6GalNAc V, ST6GalNAcV, Sialyltransferase 7E, SIAT7-E, ST6GALNAC5, SIAT7E

**Target/Specificity**

This ST6GALNAC5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 110-138 amino acids from the C-terminal region of human ST6GALNAC5.

**Dilution**

WB~~1:1000

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**

ST6GALNAC5 Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ST6GALNAC5 Antibody(C-term) - Protein Information****Name** ST6GALNAC5

## Synonyms SIAT7E

**Function** Predominantly catalyzes the biosynthesis of ganglioside GD1alpha from GM1b in the brain, by transferring 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 GM1b (PubMed:[12668675](#)). 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). Also shows activity towards sialyl Lc4Cer (N-acetyl-alpha-neuraminosyl-(2->3)-beta-D-galactosyl-(1->3)-N-acetyl-beta-D-glucosaminyl-(1->3)-beta-D-galactosyl-(1->4)-beta-D-glucosyl-(11')-N-acyl-sphing-4-enine) generating disialyl Lc4Cer, which can lead to the synthesis of disialyl Lewis a (Le(a)), suggested to be a cancer-associated antigen (PubMed:[12668675](#)).

## Cellular Location

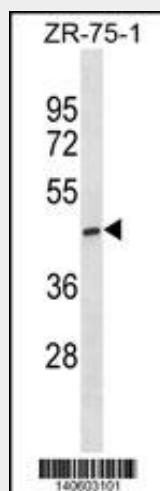
Golgi apparatus membrane; Single- pass type II membrane protein

## ST6GALNAC5 Antibody(C-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](#)

## ST6GALNAC5 Antibody(C-term) - Images



ST6GALNAC5 Antibody (C-term) (Cat. #AP19473b) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the ST6GALNAC5 antibody detected the ST6GALNAC5 protein (arrow).

## ST6GALNAC5 Antibody(C-term) - Background

ST6GALNAC5 belongs to a family of sialyltransferases that

modify proteins and ceramides on the cell surface to alter cell-cell or cell-extracellular matrix interactions (Tsuchida et al., 2003 [PubMed 12668675]).

#### **ST6GALNAC5 Antibody(C-term) - References**

Rose, J. Phd, et al. Mol. Med. (2010) In press :  
Harduin-Lepers, A., et al. Glycobiology 15(8):805-817(2005)  
Tsuchida, A., et al. J. Biol. Chem. 278(25):22787-22794(2003)  
Ikehara, Y., et al. FEBS Lett. 463 (1-2), 92-96 (1999) :  
Okajima, T., et al. J. Biol. Chem. 274(43):30557-30562(1999)