

#### SIA8C Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP5596b

## **Specification**

## SIA8C Antibody (C-term) - Product Information

Application FC, WB,E Primary Accession 043173

Other Accession <u>Q64689</u>, <u>NP 056963.2</u>

Reactivity
Predicted
Host
Clonality
Isotype
Calculated MW
Antigen Region

Human
Mouse
Rabbit
Polyclonal
Rabbit IgG
312-340

# SIA8C Antibody (C-term) - 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

#### Target/Specificity

This SIA8C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 312-340 amino acids from the C-terminal region of human SIA8C.

## **Dilution**

FC~~1:10~50 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**

SIA8C Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## SIA8C Antibody (C-term) - Protein Information



## Name ST8SIA3 (<u>HGNC:14269</u>)

## **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: 10766765, PubMed: 26192331, PubMed: 9826427). Forms oligosialic and polysialic acid on various sialylated N-acetyllactosamine oligosaccharides of glycoproteins, including FETUB N-glycans, a2-HSglycoprotein (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: 10766765, PubMed: 9826427). 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 disialy! N-acetyllactosamines are the best acceptor substrates among glycoproteins (PubMed: 10766765, PubMed: 26192331). 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.

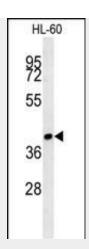
## SIA8C Antibody (C-term) - Protocols

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

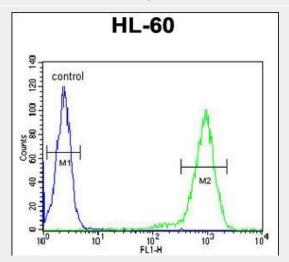
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# SIA8C Antibody (C-term) - Images





SIA8C Antibody (C-term) (Cat. #AP5596b) western blot analysis in HL-60 cell line lysates (15ug/lane). This demonstrates the SIA8C antibody detected the SIA8C protein (arrow).



SIA8C Antibody (C-term) (Cat. #AP5596b) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## SIA8C Antibody (C-term) - Background

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

# SIA8C Antibody (C-term) - 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)