

SIA8C Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5596b**Specification**

SIA8C Antibody (C-term) - Product Information

Application	WB, FC,E
Primary Accession	O43173
Other Accession	O64689 , NP_056963.2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	43970
Antigen Region	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

WB~~1:1000
FC~~1:10~50

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 ([HGNC:14269](#))

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:[9826427](#), PubMed:[26192331](#), PubMed:[10766765](#)). Forms oligosialic and polysialic acid on various sialylated N-acetyllactosamine oligosaccharides of glycoproteins, including FETUB N-glycans, a2-HS-glycoprotein (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:[9826427](#), PubMed:[10766765](#)). 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 disialyl N-acetyllactosamines are the best acceptor substrates among glycoproteins (PubMed:[26192331](#), PubMed:[10766765](#)). 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.

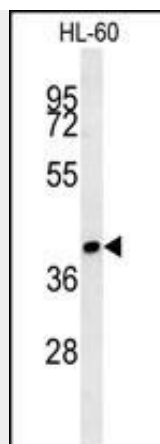
SIA8C Antibody (C-term) - Protocols

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

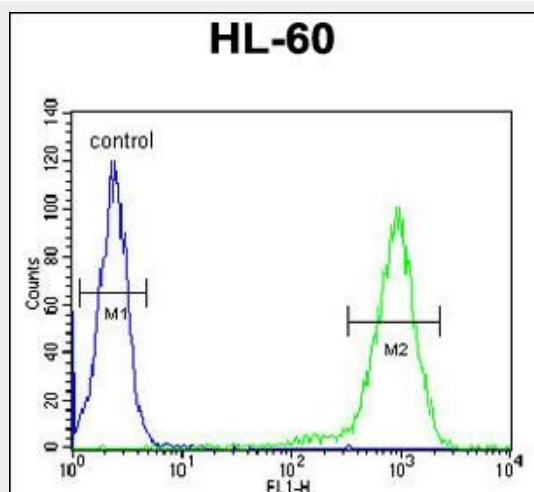
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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)