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ST8SIA4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9771C

Specification

ST8SIA4 Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q92187
Other Accession	Q64692, Q6ZXC9
Reactivity	**Human, Mouse**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**41295**
Antigen Region	**186-214**

ST8SIA4 Antibody (Center) - Additional Information

Gene ID 7903

Other Names
CMP-N-acetylneuraminate-poly-alpha-2, 8-sialyltransferase, 2499-, Alpha-2, 8-sialyltransferase 8D, Polysialyltransferase-1, Sialyltransferase 8D, SIAT8-D, Sialyltransferase St8Sia IV, ST8SiaIV, ST8SIA4, PST, PST1, SIAT8D

Target/Specificity
This ST8SIA4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 186-214 amino acids from the Central region of human ST8SIA4.

Dilution
WB~~1:1000
IHC-P~~1:10~50
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
ST8SIA4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ST8SIA4 Antibody (Center) - Protein Information

Name ST8SIA4 (HGNC:10871)

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 protein acceptor through alpha-2,8-linkages (PubMed:10766765, PubMed:11279095, PubMed:28810663, PubMed:9774483). Therefore, participates in polysialic acid synthesis on various sialylated N-acetyllactosaminyl oligosaccharides, including NCAM1 N-glycans, FETUB N-glycans and AHSG (PubMed:10766765, PubMed:11279095, PubMed:28810663, PubMed:9774483). It is noteworthy that alpha-2,3-linked sialic acid is apparently a better acceptor than alpha-2,6-linked sialic acid (PubMed:9774483).

Cellular Location
Golgi apparatus membrane; Single-pass type II membrane protein. Secreted

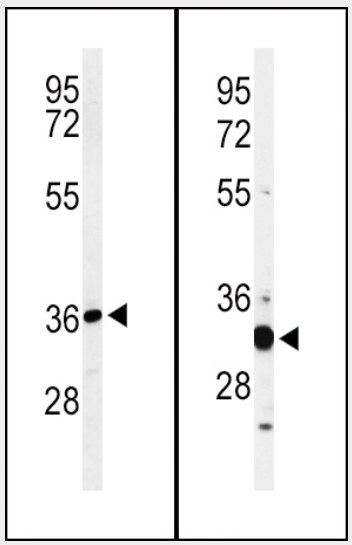
Tissue Location
Highly expressed in fetal brain, lung and kidney and in adult heart, spleen and thymus (PubMed:7624364). Present to a lesser extent in adult brain, placenta, lung, large and small intestine and peripheral blood leukocytes (PubMed:7624364)

ST8SIA4 Antibody (Center) - Protocols

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

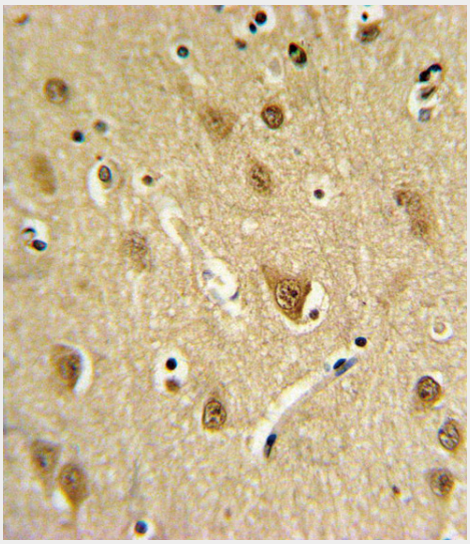
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ST8SIA4 Antibody (Center) - Images

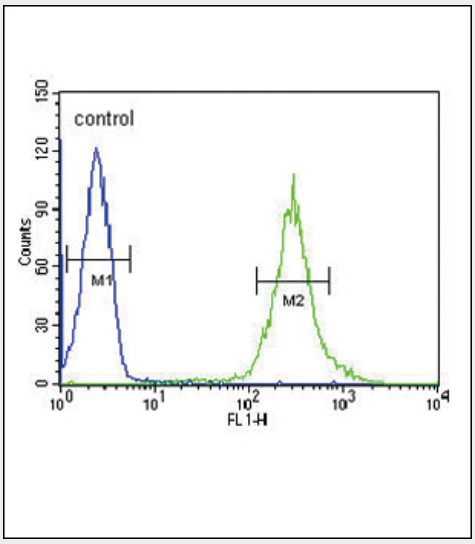


Western blot analysis of ST8SIA4 Antibody (Center) (Cat. #AP9771c) in HL-60 cell line lysates (35ug/lane). ST8SIA4 (arrow) was detected using the purified Pab. Western blot analysis of ST8SIA4 Antibody (Center) (Cat. #AP9771c) in mouse spleen tissue lysates (35ug/lane). ST8SIA4

(arrow) was detected using the purified Pab.



ST8SIA4 Antibody (Center) (Cat. #AP9771c) IHC analysis in formalin fixed and paraffin embedded brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ST8SIA4 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



ST8SIA4 Antibody (Center) (Cat. #AP9771c) 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.

ST8SIA4 Antibody (Center) - Background

The protein encoded by this gene catalyzes the polycondensation of alpha-2,8-linked sialic acid required for the synthesis of polysialic acid, a modulator of the adhesive properties of neural cell adhesion molecule (NCAM1). The encoded protein, which is a member of glycosyltransferase family 29, is a type II membrane protein that may be present in the Golgi apparatus.

ST8SIA4 Antibody (Center) - References

Johnson, M.P., et al. Hum. Genet. 126(5):655-666(2009)
Foley, D.A., et al. J. Biol. Chem. 284(23):15505-15516(2009)
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Schreiber, S.C., et al. Gastroenterology 134(5):1555-1566(2008)
Close, B.E., et al. Glycobiology 11(11):997-1008(2001)
Angata, K., et al. J. Biol. Chem. 276(18):15369-15377(2001)

ST8SIA4 Antibody (Center) - Citations

- lncRNA MALAT1/miR-26a/26b/ST8SIA4 axis mediates cell invasion and migration in breast cancer cell lines