

ST8SIA4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9771C

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q92187
Other Accession	Q64692 , Q6ZXC9
Reactivity	Human, Mouse
Predicted	Bovine, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24553
Calculated MW	41295
Antigen Region	186-214

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~~1:100~500 FC~~1:10~50 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	ST8SIA4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ST8SIA4 (HGNC:10871)
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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)

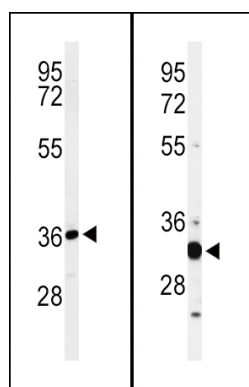
Background

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.

References

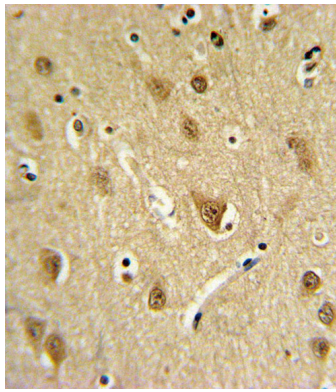
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Images

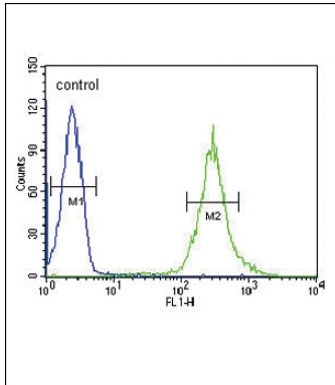


Western blot analysis of ST8SIA4 Antibody (Center) (Cat. #AP9771c) in HL-60 cell line lysates (35ug/lane). ST8SIA4 (arrow) was detected using the purified Pab. Western blot analysis of ST8SIA4 Antibody (Center) (Cat. #AP9771c) in mouse spleen tissue lysates (35ug/lane). ST8SIA4 (arrow) was detected using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

Citations

- [lncRNA MALAT1/miR 26a/26b/ST8SIA4 axis mediates cell invasion and migration in breast cancer cell lines](#)

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