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ST8SIA2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ST8SIA2.
Catalog # AT4053a

Product Information

Application	WB, IHC
Primary Accession	Q92186
Other Accession	NM_006011
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	6G6
Calculated MW	42430

Additional Information

Gene ID	8128
Other Names	Alpha-2, 8-sialyltransferase 8B, 2499-, Sialyltransferase 8B, SIAT8-B, Sialyltransferase St8Sia II, ST8SiaII, Sialyltransferase X, STX, ST8SIA2, SIAT8B, STX
Target/Specificity	ST8SIA2 (NP_006002, 40 a.a. ~ 146 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ST8SIA2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

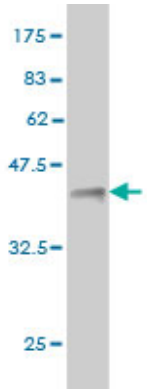
Background

The protein encoded by this gene is a type II membrane protein that is thought to catalyze the transfer of sialic acid from CMP-sialic acid to N-linked oligosaccharides and glycoproteins. The encoded protein may be found in the Golgi apparatus and may be involved in the production of polysialic acid, a modulator of the adhesive properties of neural cell adhesion molecule (NCAM1). This protein is a member of glycosyltransferase family 29.

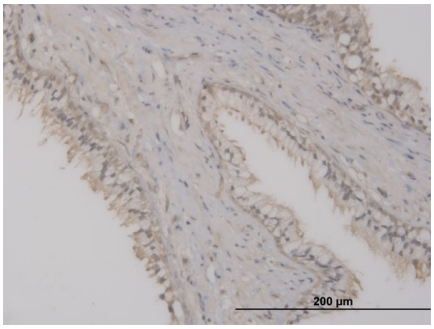
References

A genome-wide scan for common alleles affecting risk for autism. Anney R, et al. Hum Mol Genet, 2010 Aug 16. PMID 20663923.Identification of sequences in the polysialyltransferases ST8Sia II and ST8Sia IV that are required for the protein-specific polysialylation of the neural cell adhesion molecule, NCAM. Foley DA, et al. J Biol Chem, 2009 Jun 5. PMID 19336400.Positive association between SIAT8B and schizophrenia in the Chinese Han population. Tao R, et al. Schizophr Res, 2007 Feb. PMID 17126533.Association between polymorphisms in the promoter region of the sialyltransferase 8B (SIAT8B) gene and schizophrenia. Arai M, et al. Biol Psychiatry, 2006 Apr 1. PMID 16229822.Valproic acid modulates NCAM polysialylation and polysialyltransferase mRNA expression in human tumor cells. Beecken WD, et al. Int Immunopharmacol, 2005 Apr. PMID 15710344.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.51 KDa) .



Immunoperoxidase of monoclonal antibody to ST8SIA2 on formalin-fixed paraffin-embedded human prostate. [antibody concentration 1.2 ug/ml]