

ST3GAL2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ST3GAL2.

Catalog # AT4051a

Product Information

Application	WB, IHC, E
Primary Accession	Q16842
Other Accession	NM_006927
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1E13
Calculated MW	40173

Additional Information

Gene ID	6483
Other Names	CMP-N-acetylneuraminate-beta-galactosamide-alpha-2, 3-sialyltransferase 2, Alpha 2, 3-ST 2, Beta-galactoside alpha-2, 3-sialyltransferase 2, Gal-NAc6S, Gal-beta-1, 3-GalNAc-alpha-2, 3-sialyltransferase, ST3Gal II, ST3GalII, ST3GalA2, Sialyltransferase 4B, SIAT4-B, ST3GAL2, SIAT4B
Target/Specificity	ST3GAL2 (NP_008858, 28 a.a. ~ 127 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 E~~N/A
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	ST3GAL2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

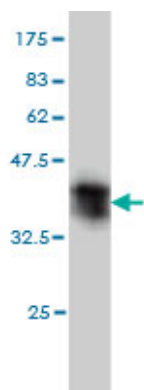
Background

The protein encoded by this gene is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The encoded protein is normally found in the Golgi but can be proteolytically processed to a soluble form. This protein, which is a member of glycosyltransferase family 29, can use the same acceptor substrates as does sialyltransferase 4A.

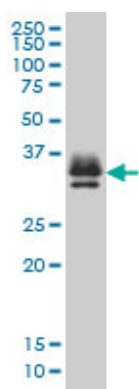
References

Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348. A human protein-protein interaction network: a resource for annotating the proteome. Stelzl U, et al. Cell, 2005 Sep 23. PMID 16169070. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334. Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039. Human alpha2,3-sialyltransferase (ST3Gal II) is a stage-specific embryonic antigen-4 synthase. Saito S, et al. J Biol Chem, 2003 Jul 18. PMID 12716912.

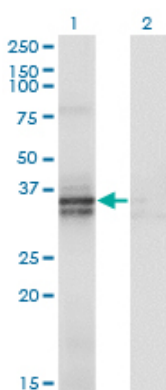
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



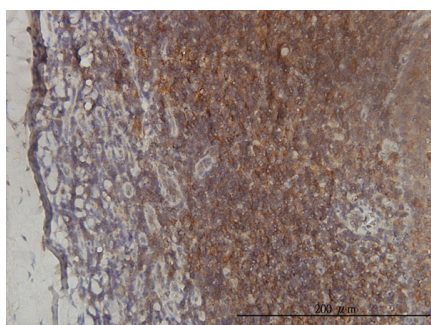
ST3GAL2 monoclonal antibody (M01), clone 1E12 Western Blot analysis of ST3GAL2 expression in K-562 ((Cat # AT4051a)



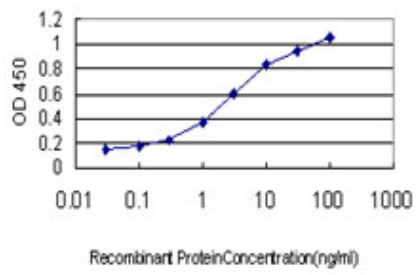
Western Blot analysis of ST3GAL2 expression in transfected 293T cell line by ST3GAL2 monoclonal antibody (M01), clone 1E12.

Lane 1: ST3GAL2 transfected lysate (Predicted MW: 40.2 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to ST3GAL2 on formalin-fixed paraffin-embedded human tonsil tissue. [antibody concentration 1 ~ 10 ug/ml]



Detection limit for recombinant GST tagged ST3GAL2 is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.