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STXBP1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant STXBP1.
Catalog # AT4101a

Product Information

Application	WB, IHC, E
Primary Accession	P61764
Other Accession	NM_003165
Reactivity	Human, Mouse
Host	Mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	6D1
Calculated MW	67569

Additional Information

Gene ID	6812
Other Names	Syntaxin-binding protein 1, MUNC18-1, N-Sec1, Protein unc-18 homolog 1, Unc18-1, Protein unc-18 homolog A, Unc-18A, p67, STXBP1, UNC18A
Target/Specificity	STXBP1 (NP_003156, 74 a.a. ~ 168 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	STXBP1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

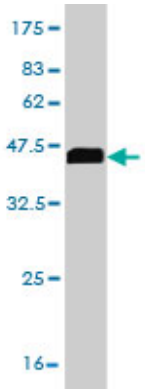
This gene encodes a syntaxin-binding protein. The encoded protein appears to play a role in release of neurotransmitters via regulation of syntaxin, a transmembrane attachment protein receptor. Mutations in this gene have been associated with infantile epileptic encephalopathy-4. Alternatively spliced transcript variants have been described.

References

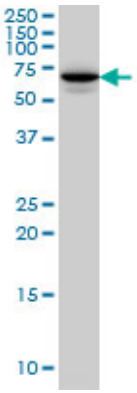
Proteome analysis of the thalamus and cerebrospinal fluid reveals glycolysis dysfunction and potential biomarkers candidates for schizophrenia. Martins-de-Souza D, et al. J Psychiatr Res, 2010 May 14. PMID

20471030.Redox proteomic analysis of carbonylated brain proteins in mild cognitive impairment and early Alzheimer's disease. Sultana R, et al. Antioxid Redox Signal, 2010 Mar. PMID 19686046.De novo STXBP1 mutations in mental retardation and nonsyndromic epilepsy. Hamdan FF, et al. Ann Neurol, 2009 Jun. PMID 19557857.Proteomic analysis reveals Hrs ubiquitin-interacting motif-mediated ubiquitin signaling in multiple cellular processes. Pridgeon JW, et al. FEBS J, 2009 Jan. PMID 19019082.Syntaxin 1A interaction with the dopamine transporter promotes amphetamine-induced dopamine efflux. Binda F, et al. Mol Pharmacol, 2008 Oct. PMID 18617632.

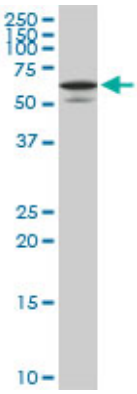
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.19 KDa) .

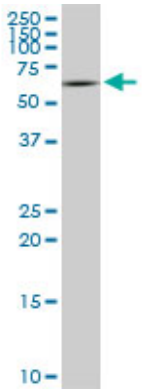


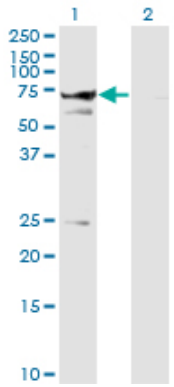
STXBP1 monoclonal antibody (M01), clone 6D1 Western Blot analysis of STXBP1 expression in HeLa ((Cat # AT4101a)



STXBP1 monoclonal antibody (M01), clone 6D1. Western Blot analysis of STXBP1 expression in Raw 264.7 ((Cat # AT4101a)

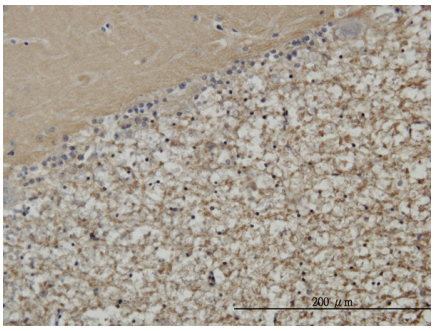
STXBP1 monoclonal antibody (M01), clone 6D1. Western Blot analysis of STXBP1 expression in NIH/3T3 ((Cat # AT4101a)



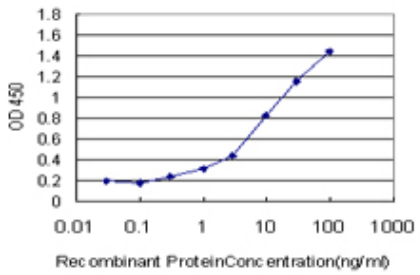


Western Blot analysis of STXBP1 expression in transfected 293T cell line by STXBP1 monoclonal antibody (M01), clone 6D1.

Lane 1: STXBP1 transfected lysate (Predicted MW: 68.7 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to STXBP1 on formalin-fixed paraffin-embedded human cerebellum. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged STXBP1 is approximately 0.3ng/ml as a capture antibody.

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