10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BIN1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant BIN1.
Catalog # AT1298a

Product Information

Application	WB
Primary Accession	O00499
Other Accession	NM_004305
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1H1
Calculated MW	64699

Additional Information

Gene ID	274
Other Names	Myc box-dependent-interacting protein 1, Amphiphysin II, Amphiphysin-like protein, Box-dependent myc-interacting protein 1, Bridging integrator 1, BIN1, AMPHL
Target/Specificity	BIN1 (NP_004296, 355 a.a. ~ 454 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
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	BIN1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

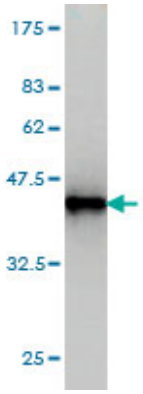
Background

This gene encodes several isoforms of a nucleocytoplasmic adaptor protein, one of which was initially identified as a MYC-interacting protein with features of a tumor suppressor. Isoforms that are expressed in the central nervous system may be involved in synaptic vesicle endocytosis and may interact with dynanim, synaptojanin, endophilin, and clathrin. Isoforms that are expressed in muscle and ubiquitously expressed isoforms localize to the cytoplasm and nucleus and activate a caspase-independent apoptotic process. Studies in mouse suggest that this gene plays an important role in cardiac muscle development. Alternate splicing of the gene results in ten transcript variants encoding different isoforms. Aberrant splice variants expressed in tumor cell lines have also been described.

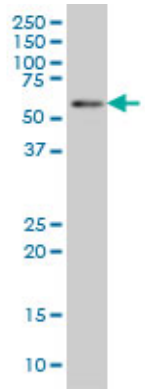
References

Genetic variation and neuroimaging measures in Alzheimer disease. Biffi A, et al. Arch Neurol, 2010 Jun. PMID 20558387.Genome-wide analysis of genetic loci associated with Alzheimer disease. Seshadri S, et al. JAMA, 2010 May 12. PMID 20460622.Association of genetic variants with hemorrhagic stroke in Japanese individuals. Yoshida T, et al. Int J Mol Med, 2010 Apr. PMID 20198315.BIN1 localizes the L-type calcium channel to cardiac T-tubules. Hong TT, et al. PLoS Biol, 2010 Feb 16. PMID 20169111.Phenotype of a patient with recessive centronuclear myopathy and a novel BIN1 mutation. Claeys KG, et al. Neurology, 2010 Feb 9. PMID 20142620.

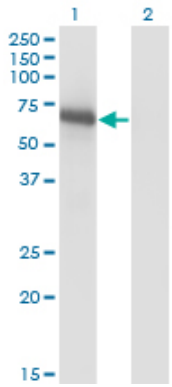
Images



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



BIN1 monoclonal antibody (M01), clone 1H1 Western Blot analysis of BIN1 expression in Hela S3 NE ((Cat # AT1298a)



Western Blot analysis of BIN1 expression in transfected 293T cell line by BIN1 monoclonal antibody (M01), clone 1H1.

Lane 1: BIN1 transfected lysate(53 KDa).
Lane 2: Non-transfected lysate.