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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-BIN1/Amphiphysin Ii Monoclonal Antibody

Catalog Number: M01551

About BIN1

Bin1 is a conserved member of the BAR family of genes that have been implicated in diverse cellular processes including endocytosis, actin organization, programmed cell death, stress responses, and transcriptional control. The first mammalian BAR protein to be discovered, Amphiphysin I (AmphI), was identified in an immunoscreen for proteins associated with the plasma membranes of synaptic neurons, functions in the control of clathrin-dependent synaptic vesicle endocytosis. The mammalian Bin1 gene was first identified in a two hybrid screen for polypeptides that bind to the N-terminal Myc box 1 (MB1) portion of the c-Myc oncoprotein. Bin1 is similar to AmphI in overall structure, with an N-terminal BAR domain and a C-terminal SH3 domain. However, the Bin1 gene is more complex than the AmphI gene, encoding at least seven different splice variants that differ widely in subcellular localization, tissue distribution, and ascribed functions. Alternate splicing of the Bin1 gene results in ten transcript variants encoding different isoform. Bin1 is expressed ubiquitously in mammalian cells. Certain splice variants of Bin1 are expressed in the neurons, muscle cells or tumor cells. Bin1 may act as a cancer suppressor and inhibits malignant cell transformation. Studies in mouse suggest that this gene plays an important role in cardiac muscle development. Bin1 has also been implicated in Alzheimer disease and cardiac disease. Defects in Bin1 are the cause of centronuclear myopathy autosomal recessive; also known as autosomal recessive myotubular myopathy.

Overview

Product Name	Anti-BIN1/Amphiphysin Ii Monoclonal Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-BIN1/Amphiphysin Ii Monoclonal Antibody (Catalog # M01551). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse.
Application	ELISA, WB
Clonality	Monoclonal Clone: 99D IgG2b
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Mouse
Uniprot ID	O00499

Technical Details

Immunogen	Anti-BIN1 (MOUSE) Monoclonal Antibody was produced in mouse by repeated immunizations with a fragment portion of recombinant human BIN1 protein followed by hybridoma development.
Predicted Reactive Species	Chimpanzee

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Isotype	IgG2b
Form	Liquid (sterile filtered)
Concentration	1.0 mg/mL by UV absorbance at 280 nm
Purification	Anti-BIN1 was purified from clarified mouse ascetic fluid by Protein A chromatography followed by extensive dialysis against the buffer stated above. BIN1 antibody is specific for human BIN1 protein. A BLAST analysis was used to suggest cross-reactivity with BIN1 from human and mouse sources based on 100% homology with the immunizing sequence. Cross-reactivity with BIN1 from other sources has not been determined.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: ELISA: 1:5000-1:50000 Flow Cytometry: 0.5-1x10^6 cells IHC: 1:100-1:500 IP: 10-100 µL WB: 1:500-1:1500

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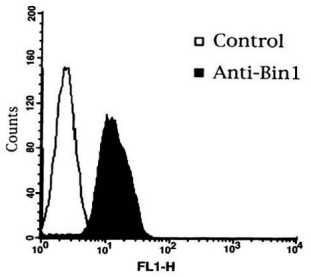
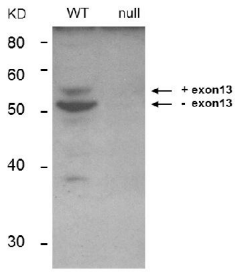
Anti-BIN1/Amphiphysin Ii Monoclonal Antibody (M01551) Images



Flow Cytometry of BIN1 of HEK293 cells expression in C2C12 cells. BIN1 was detected using mouse anti-IDO1 Antigen Affinity purified monoclonal antibody (Catalog # M01551)



Western blot analysis of BIN1 expression in Keratinocyte derived from Bin1 wild type mice (lane 1) and Keratinocyte derived from Bin1 null mice (lane 2). BIN1 was detected using mouse anti-BIN1 Antigen Affinity purified monoclonal antibody (Catalog # M01551). The blot was developed using chemiluminescence (ECL) method (Catalog # EK1001).

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