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Datasheet for 209-301-E62

BIN1 Antibody

Overview

Description:	Anti-BIN1 (MOUSE) Monoclonal Antibody - 209-301-E62
Item No.:	209-301-E62
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	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 with cancer suppressor and inhibits malignant cell transformation. A Study in human tumor cell lines found that most melanoma cells inappropriately expressed exon 12A, suggests that the aberrant splicing of Bin1 may contribute to melanoma progression.
Synonyms:	AMPHL, Myc box-dependent-interacting protein 1, Amphiphysin II, Amphiphysin-like protein, Box-dependent myc-interacting protein 1, Bridging integrator 1, BIN 1, BIN-1, mouse anti-BIN1 antibody, anti-BIN1 antibody
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	12A
Format:	IgG1

Target Details

Gene Name:	BIN1
Reactivity:	Human
Immunogen Type:	Recombinant Protein
Immunogen:	Anti-BIN1 (MOUSE) Monoclonal Antibody was produced in mouse by repeated immunizations with 12A exon BIN1 protein followed by hybridoma development.
Purity/Specificity:	Anti-BIN1 was purified from clarified mouse ascetic fluid by Protein A chromatography followed by extensive dialysis against the buffer stated above. This antibody is specific for human BIN1 protein. A BLAST analysis was used to suggest cross-reactivity with BIN1 from human sources based on 100% homology with the immunizing sequence. Cross-reactivity with BIN1 from other sources has not been determined.
Relevant Links:	• GeneID - 274 • NCBI - NP_004296.1 • UniProtKB - O00499

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-BIN1 antibody has been tested for use in ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000-1:50000
WB:	1:500-1:1500

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

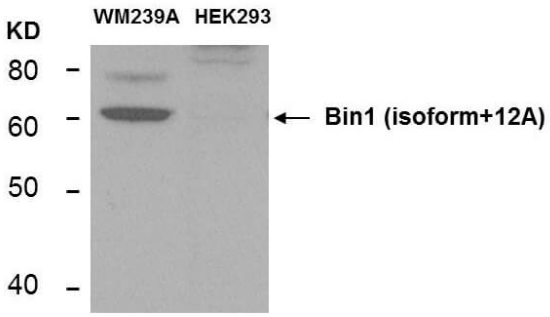
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of Mouse Anti-BIN-1 Antibody. Lane 1: LNCaP (p/n W09-001-GJ9). Lane 2: WM1341D. Lane 3: WM164. Lane 4: WM983A. Lane 5: WM793. Lane 6: WM239A. Lane 7: WM35. Load: 35 µg per lane. Primary antibody: BIN-1 antibody (Exon 12A specific) at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.



Western Blot
Western Blot of Rabbit Anti-BIN1 Antibody. Lane 1: WM239A lysate. Lane 2: HEK293 lysate (p/n W09-000-365). Load: 35 µg per lane. Primary antibody: BIN1 Antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 64.7 kDa for BIN 1. Other band(s): non-specifics.

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