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Datasheet for 600-401-Z77

BMF Antibody

Overview

Description:	Anti-BMF (RABBIT) Antibody - 600-401-Z77
Item No.:	600-401-Z77
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Apoptosis is related to many diseases and development. Members in the Bcl-2 family are critical regulators of apoptosis by either inhibiting or promoting cell death. Bcl-2 homology 3 (BH3) domain is a potent death domain. BH3-only proteins, including Bad, Bid, Bik, Hrk, Bim, Noxa, and PUMA, form a growing subclass of the Bcl-2 family. A novel BH3-only protein was recently identified in human and mouse and designated Bmf (for Bcl-2-modifing factor). The BH3 domain in Bmf is required both for binding to Bcl-2 proteins and for triggering apoptosis. In healthy cells, Bmf associates with the dynein light chain 2 (DLC2) component of the myosin V motors and is sequestered by the cell's actin cytoskeleton. Disruption of the actin cytoskeleton, either by depolymerization of actin filaments or by detachment of cells from the extracellular matrix, triggers release and activation of Bmf, initiating the downstream apoptotic program. Bmf is constitutively expressed in many tissues.
Synonyms:	Bmf Antibody, Bcl-2-modifying factor
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	BMF
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Bmf antibody was raised with a synthetic peptide corresponding to 14 amino acids near the C-terminus of human Bmf.
Purity/Specificity:	Anti-Bmf Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Bmf from other sources has not been determined.
Relevant Links:	• UniProtKB - Q96LC9 • GeneID - 90427 • NCBI - NP_277038

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Bmf Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 21 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:25,000 - 1:100,000
IF:	10 µg/mL
IHC:	10 µg/mL
WB:	2.5 - 5 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

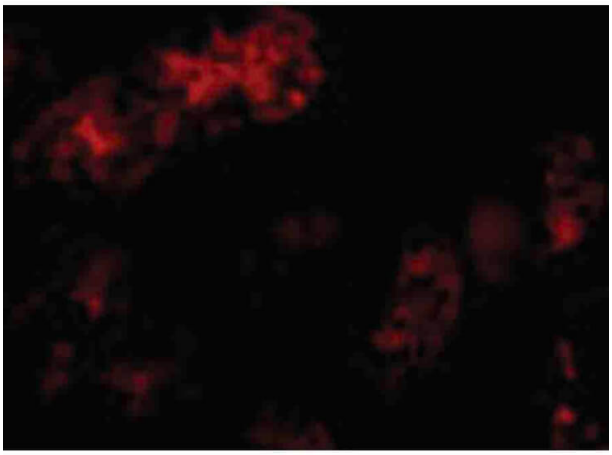
Shipping & Handling

Shipping Condition:	Dry Ice

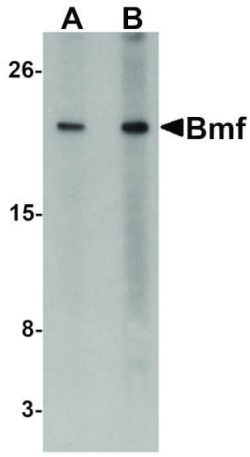
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

Immunofluorescence Microscopy
Immunofluorescence Microscopy of Bmf antibody. Tissue: human kidney tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Bmf antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Bmf is located in the acrosomal vesicle, mitochondrial outer membrane, plasma membrane, cytosol, and myosin complex. Staining: Bmf as red fluorescent signal.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of Bmf antibody. Cell Type: human kidney cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Bmf antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Bmf is located in the acrosomal vesicle, mitochondrial outer membrane, plasma membrane, cytosol, and myosin complex. Staining: Bmf as red fluorescent signal.



Western Blot

Western Blot of Bmf antibody. Lane A: HepG2 cell lysate at 2.5 µg/ml. Lane B: HepG2 cell lysate at 5 µg/ml. Load: 35 µg per lane. Primary antibody: Bmf antibody at designated concentrations overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.
Predicted/Observed size: 21 kDa, 22 kDa for Bmf. Other band(s): Bmf splice variants and isoforms.

Disclaimer

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