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Anti-Bmf (NT)
Polyclonal Antibody

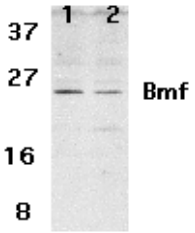
CATALOG No.: PX225A SIZE: 100 µg
PX225B SIZE: 0.5 mg

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) (1). 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 (1,2). Bmf is constitutively expressed in many tissues (1,2).

SOURCE:
Rabbit anti-Bmf polyclonal antibody was raised with a synthetic peptide (EPSQCVEELEDDV) corresponding to amino acids 2 to 14 of human Bmf (1). This sequence differs from that of mouse by one amino acid.

APPLICATION:
This antibody can be used for detection of Bmf by Western blot at 2 µg/ml. HepG2 or 293 cell lysate can be used as a positive control and a band at approximately 25 kDa can be detected. It is human and mouse reactive.

STORAGE:
It is supplied as immunoaffinity chromatography purified IgG, 100 µg in 100 µl of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of Bmf expression in human HepG2 (lane 1) and 293 (lane 2) cell lysates with anti-Bmf at 2 µg /ml.

RELATED PRODUCTS:
Blocking peptide, 50 µg at 200 µg/ml, is available for competition studies.
HepG2 cell lysate, 100 µg at 2 mg/ml, is available for positive control

REFERENCES:
1. Puthalakath H, Villunger A, O'Reilly LA, Beaumont JG, Coultas L, Cheney RE, Huang DC, Strasser A. Bmf: a proapoptotic BH3-only protein regulated by interaction with the myosin V actin motor complex, activated by anoikis. *Science.* 2001;293(5536):1829-32.
2. Hunt A, Evan G. Apoptosis. Till death us do part. *Science.* 2001;293(5536):1784-5.

CAUTION: NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.

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