Revision 1



For Research	Use Only.	Not for Use i	n Diagnostic	Procedures.
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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit	UniProt ID: #Q96LC9	Entrez-Gene Id: 90427		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	Bmf (G81) Antibody re	ecognizes endogeno	ous levels of total Bmf pr	otein.			
Species predict based on 100% homology	ed to react sequence	Mouse, Rat						
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding t residues surrounding Gly81 of human Bmf protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		The BH3-only proteins are a group of pro-apoptotic proteins of the Bcl-2 family that share the conserved BH3 domain but lack BH1, BH2, and BH4 (1). This short BH3 domain is essential for interaction with pro-survival members of the Bcl-2 family and allows for their pro-apoptotic activity. A large number of BH3-only proteins have been identified in mammals, including Bmf, Bad, Bik, Bid, Bir Hrk, Noxa, and Puma. Many of these proteins appear to display distinct roles in apoptosis through tissue-specific expression. Bmf (Bcl-2-modifying factor) was originally identified in a yeast two-hybrid screen using the pro-survival protein Mcl-1 as bait (2). Bmf appears to be widely expressed, with bmf mRNA observed in cell lines of B- and T-lymphoid, myeloid, or fibroblastoid origin and in mouse embryos at all developmental stages. Bmf protein several pro-survival Bcl-2 proteins including Mcl-1 Bcl-2, Bcl-xL, and Bcl-w, and the interaction depends on the BH3 domain (2). Like Bim, Bmf has been reported to bind to cytoskeletal structures. Bmf is normally sequestered to myosin V motors through association with dynein light chain 2 (DLC2). Certain damage signals, such as the detachment of adherent cell lines from their substratum (anoikis), triggers the release of Bmf and subsequent bindir to the pro-survival Bcl-2 proteins (2).						
Background Re	ferences	1. Puthalakath, H. and Strasser, A. (2002) <i>Cell Death Differ</i> 9, 505-12. 2. Puthalakath, H. et al. (2001) <i>Science</i> 293, 1829-32. 3. Morales, A.A. et al. (2004) <i>Leukemia</i> 18, 41-7.						
Species Reactiv	rity	Species reactivity is de	etermined by testing	g in at least one approve	d application (e.g.,	western blot).		
Western Blot B	uffer	IMPORTANT: For west TBS, 0.1% Tween® 20	ern blots, incubate at 4°C with gentle s	membrane with diluted haking, overnight.	primary antibody ir	ר 5% w/v BSA, 1X		
Applications Ke	ey	W: Western Blotting						
Cross-Reactivit	у Кеу	H: Human						
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