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Phospho-Bad (Ser112) (7E11) Mouse mAb



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	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 23	Source/Isotype: Mouse IgG1	UniProt ID: #Q92934	Entrez-Gene ld: 572
Product Usage Information	Ар	plication		Dilution		
	We	estern Blotting		1:2000		
Storage		•		7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than not aliquot the antibody.		
Specificity / Sensitiv	at s pho	Phospho-Bad (Ser112) (7E11) Mouse mAb detects endogenous levels of Bad only when phosphorylated at serine112. The Ser112 nomenclature is based upon the mouse sequence. The analogous phosphorylation site is Ser75 in human and Ser113 in rat. This antibody does not detect Bad phosphorylated at other sites, nor does it detect related family members.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser112 of mouse Bad.				
Background	to B intra Pho betv Bad PKA	Bad is a proapoptotic member of the Bcl-2 family that promotes cell death by displacing Bax from binding to Bcl-2 and Bcl-xL (1,2). Survival factors, such as IL-3, inhibit the apoptotic activity of Bad by activating intracellular signaling pathways that result in the phosphorylation of Bad at Ser112 and Ser136 (2). Phosphorylation at these sites promotes binding of Bad to 14-3-3 proteins to prevent an association between Bad with Bcl-2 and Bcl-xL (2). Akt phosphorylates Bad at Ser136 to promote cell survival (3,4). Bad is phosphorylated at Ser112 both <i>in vivo</i> and <i>in vitro</i> by p90RSK (5,6) and mitochondria-anchored PKA (7). Phosphorylation at Ser155 in the BH3 domain by PKA plays a critical role in blocking the dimerization of Bad and Bcl-xL (8-10).				
1. Yang, E. et al. (1995) Cell 80, 285-2 2. Zha, J. et al. (1996) Cell 87, 619-62 3. Datta, S.R. et al. (1997) Cell 91, 23: 4. Peso, L. et al. (1997) Science 278, 5. Bonni, A. et al. (1999) Science 286, 6. Tan, Y. et al. (1999) J. Biol. Chem. 2 7. Harada, H. et al. (1999) Mol. Cell 3, 8. Tan, Y. et al. (2000) J. Biol. Chem. 2 9. Lizcano, J. et al. (2000) Biochem. J. 10. Datta, S. et al. (2000) Mol. Cell 6, 4			Cell 87, 619-628. 97) Cell 91, 231-2 Science 278, 68) Science 286, 13 1. Biol. Chem. 27- 99) Mol. Cell 3, 42 1. Biol. Chem. 275 10) Biochem. J. 3	241. 7-689. 858-1362. 1, 34859-34867. 13-422. 5, 25865-25869. 49, 547-557.		

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

Phospho-Bad (Ser112) (7E11) Mouse mAb (#9296) Datasheet Without Images Cell Signaling Technology

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