Store at -20C

Phospho-Bad (Ser112) Antibody



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 23	Source: Rabbit	UniProt ID: #Q92934	Entrez-Gene Id: 572	
Product Usage Information	Application			Dilution			
	W	estern Blotting			1:1000		
	Im	nmunoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		Phospho-Bad (Ser112) Antibody detects endogenous levels of Bad only when phosphorylated at Ser112. 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	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser112 of mouse Bad. Antibodies are purified by protein A and peptide affinity chromatography.						
Bad is a proapoptotic member of the Bcl-2 family that promotes cell death by displacing B to Bcl-2 and Bcl-xL (1,2). Survival factors, such as IL-3, inhibit the apoptotic activity of Bac intracellular signaling pathways that result in the phosphorylation of Bad at Ser112 and Se Phosphorylation at these sites promotes binding of Bad to 14-3-3 proteins to prevent an a between Bad with Bcl-2 and Bcl-xL (2). Akt phosphorylates Bad at Ser136 to promote cell Bad is phosphorylated at Ser112 both <i>in vivo</i> and <i>in vitro</i> by p90RSK (5,6) and mitochond PKA (7). Phosphorylation at Ser155 in the BH3 domain by PKA plays a critical role in bloc dimerization of Bad and Bcl-xL (8-10).					Bad by activating d Ser136 (2). an association cell survival (3,4). ondria-anchored		
Background Refere	1. Yang, E. et al. (1995) <i>Cell</i> 80, 285-291. 2. Zha, J. et al. (1996) <i>Cell</i> 87, 619-628. 3. Datta, S.R. et al. (1997) <i>Cell</i> 91, 231-241. 4. Peso, L. et al. (1997) <i>Science</i> 278, 687-689. 5. Bonni, A. et al. (1999) <i>Science</i> 286, 1358-1362. 6. Tan, Y. et al. (1999) <i>J. Biol. Chem.</i> 274, 34859-34867. 7. Harada, H. et al. (1999) <i>Mol. Cell</i> 3, 413-422. 8. Tan, Y. et al. (2000) <i>J. Biol. Chem.</i> 275, 25865-25869. 9. Lizcano, J. et al. (2000) <i>Biochem. J.</i> 349, 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 IP: Immunoprecipitation

10. Datta, S. et al. (2000) Mol. Cell 6, 41-51.

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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3/23/24, 11:35 AM **Limited Uses**

Phospho-Bad (Ser112) Antibody (#9291) Datasheet Without Images Cell Signaling Technology

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