Phospho-Bad (Ser155) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: M	Sensitivity: Transfected Only	MW (kDa): 23	Source/Isotype: Rabbit	UniProt ID: #Q92934	Entrez-Gene Id: 572
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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 (Ser155) Antibody detects transfected levels of Bad only when phosphorylated at Ser155. This antibody does not detect Bad phosphorylated at other sites or related family members.				
Species predicted to react based on 100% sequence homology		Human, Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser155 of mouse Bad. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		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).				
Background Re	eferences	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. 10. Datta, S. et al. (2000) <i>Mol. Cell</i> 6, 41-51.				
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).

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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 W: Western Blotting

Cross-Reactivity Key M: Mouse

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