#9295 Store at -20C

Phospho-Bad (Ser136) Antibody

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Applications: WB	Reactivity: M	Sensitivity: Transfected Only	MW (kDa): 23	Source: Rabbit	UniProt ID: #Q92934	Entrez-Gene Id: 572	
Product Usage Information		pplication /estern Blotting			Dilution 1:500		
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 / Sensit	Th	Phospho-Bad (Ser136) Antibody detects transfected levels of Bad only when phosphorylated at Ser136. This antibody does not detect Bad phosphorylated at other sites, nor does it detect related family members.					
Species predicted react based on 100 sequence homolog	0%	ıman, Rat					
Source / Purification	to				n a synthetic phosphope purified by protein A and		
Background	to int Ph be Ba Pk	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 Refer	2. 3. 3. 5. 7. 8. 9.	 Yang, E. et al. (1995) <i>Cell</i> 80, 285-291. Zha, J. et al. (1996) <i>Cell</i> 87, 619-628. Datta, S.R. et al. (1997) <i>Cell</i> 91, 231-241. Peso, L. et al. (1997) <i>Science</i> 278, 687-689. Bonni, A. et al. (1999) <i>Science</i> 286, 1358-1362. Tan, Y. et al. (1999) <i>J. Biol. Chem.</i> 274, 34859-34867. Harada, H. et al. (1999) <i>Mol. Cell</i> 3, 413-422. Tan, Y. et al. (2000) <i>J. Biol. Chem.</i> 275, 25865-25869. Lizcano, J. et al. (2000) <i>Biochem. J.</i> 349, 547-557. Datta, S. et al. (2000) <i>Mol. Cell</i> 6, 41-51. 					
Species Reactivity	j Spe	ecies reactivity is deter	mined by testing in	n at least one appro	ved application (e.g., we	stern blot).	
Western Blot Buffe		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	WE	WB: Western Blotting					
Cross-Reactivity k	X: >	 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

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