Phospho-Bad (Ser136) (D25H8) Rabbit mAh



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Applications: W, IP	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 23	Source/Isotype: Rabbit IgG	UniProt ID: #Q92934	Entrez-Gene Id: 572
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
Storage		Supplied in 10 mM sodi 0.02% sodium azide. Sto	*1	" 13	/ml BSA, 50% glyce	rol and less than
		For a carrier free (BSA a	nd azide free) ver	sion of this product see	product #10497.	
Specificity/Sensitivity		Phospho-Bad (Ser136) (D25H8) Rabbit mAb detects endogenous levels of Bad only when phosphorylated at Ser136 (equivalent to Ser99 in human and Ser137 in rat).				
Species predict based on 100% homology		Rat				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser136 of mouse Bad protein.				
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 Ro	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 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

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **Mk:** Monkey

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