Store at -20C

Phospho-Bad (Ser136) (185D10) Rabbit mAb



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Applications: WB	Reactivity: M Mk	Sensitivity: Transfected Only	MW (kDa): 23	Source/Isotype: Rabbit IgG	UniProt ID: #Q92934	Entrez-Gene Id 572	
Product Usage Information	•	plication estern Blotting		Dilution 1:500			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		Phospho-Bad (Ser136) (185D10) Rabbit mAb detects transfected levels of Bad protein only when phosphorylated at Ser136.					
Species predicted t react based on 100 sequence homolog	%	nan, Rat					
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser136 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).					
Background Refere	2. Z 3. D 4. P 5. B 6. Ta 7. H 8. Ta 9. Li	ang, E. et al. (1995) ha, J. et al. (1996) atta, S.R. et al. (1998) eso, L. et al. (1997) onni, A. et al. (1999) an, Y. et al. (1999) arada, H. et al. (1990) zcano, J. et al. (2000) atta, S. et al. (2000	Cell 87, 619-628. 97) Cell 91, 231-2 Science 278, 68) Science 286, 13 J. Biol. Chem. 274 99) Mol. Cell 3, 41 J. Biol. Chem. 275 00) Biochem. J. 3	241. 7-689. 858-1362. I, 34859-34867. I3-422. G, 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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