5286

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



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Applications: W	<b>Reactivity:</b> M Mk	Sensitivity: Transfected Only	<b>MW (kDa):</b> 23	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q92934	Entrez-Gene Id: 572		
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:500			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	Phospho-Bad (Ser136) (185D10) Rabbit mAb detects transfected levels of Bad protein only when phosphorylated at Ser136.						
Species predict based on 100% homology	ed to react sequence	Human, Rat						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser136 of mouse Bad.						
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	<ol> <li>Yang, E. et al. (1995) <i>Cell</i> 80, 285-291.</li> <li>Zha, J. et al. (1996) <i>Cell</i> 87, 619-628.</li> <li>Datta, S.R. et al. (1997) <i>Cell</i> 91, 231-241.</li> <li>Peso, L. et al. (1997) <i>Science</i> 278, 687-689.</li> <li>Bonni, A. et al. (1999) <i>Science</i> 286, 1358-1362.</li> <li>Tan, Y. et al. (1999) <i>J. Biol. Chem.</i> 274, 34859-34867.</li> <li>Harada, H. et al. (1999) <i>Mol. Cell</i> 3, 413-422.</li> <li>Tan, Y. et al. (2000) <i>J. Biol. Chem.</i> 275, 25865-25869.</li> <li>Lizcano, J. et al. (2000) <i>Biochem. J.</i> 349, 547-557.</li> <li>Datta, S. et al. (2000) <i>Mol. Cell</i> 6, 41-51.</li> </ol>						
Species Reactiv	/ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	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.				1 5% w/v BSA, 1X		
Applications Ke	ey	W: Western Blotting						
Cross-Reactivit	у Кеу	M: Mouse Mk: Monkey						
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