Revision 1

#4366 store at -20 Rabbit mAb	d (Ser1	L36) (D25H8	3)			BISignaling CHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com
				3 Trask I	_ane Danvers Ma	ssachusetts 01923 USA
For Research Use Only. Not Applications: Re	for Use in	Diagnostic Proce Sensitivity:	dures. MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
	H M Mk	Endogenous	23	Rabbit IgG	#Q92934	572
Product Usage Information	We	plication estern Blotting nunoprecipitation			Dilution 1:1000 1:100	
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 / Sensitivit		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 predicted to react based on 100% sequence homology:	Rat					
Source / Purification		noclonal antibody is p dues surrounding Se	-	-	synthetic phosphope	eptide corresponding to
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 Referenc	2. Z 3. D 4. P 5. B 6. Ta 7. H 8. Ta 9. Li	 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	Spec	ies reactivity is deter	rmined by testing	g in at least one approv	ed 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:	WB: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key	X: Xe		B: bovine Dg: d	Mk: monkey Vir: virus og Pg: pig Sc: S. cerev es expected		0

Phospho-Bad (Ser136) (D25H8) Rabbit mAb (#4366) Datasheet Without Images Cell Signaling Technology

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