3/23/24, 11:33 AM Revision 3

e at -20C	Bad (D24A9) Rabbit mAb		Cell Signaling	
Store at -		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#		3 Trask Lane Danvers Mas	ssachusetts 01923 USA	

Applications: WB, W-S	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 23	Source/Isotype: Rabbit IgG	UniProt ID: #Q92934	Entrez-Gene Id: 572		
Product Usage Information	We	plication stern Blotting ıple Western™			Dilution 1:1000 1:10 - 1:50			
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 / Sensi		Bad (D24A9) Rabbit mAb detects endogenous levels of total Bad protein. The antibody does not cross- react with related proteins.						
Species predicted to react based on 100% sequence homology:		ine						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro102 of human 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 Refe	2. ZI 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. (1997) eso, L. et al. (1997) (onni, A. et al. (1999) J. arada, H. et al. (1999) J. arada, H. et al. (1999) an, Y. et al. (2000) J. zcano, J. et al. (2000) atta, S. et al. (2000)	ell 87, 619-628. 7) Cell 91, 231-2 Science 278, 68 Science 286, 13 Biol. Chem. 274 9) Mol. Cell 3, 42 Biol. Chem. 275 9) Biochem. J. 3	241. 7-689. 358-1362. 4, 34859-34867. 13-422. 5, 25865-25869. 49, 547-557.				
Species Reactivity	y Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buff		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 W-S: Simple Western™						
Cross-Reactivity I	X : Xe	 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 						

Trademarks and Patents

Limited Uses

Bad (D24A9) Rabbit mAb (#9239) Datasheet Without Images Cell Signaling Technology

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