3/23/24, 11:11 AM Revision 1

REVISIONI						
Phospho-Bim (Ser69) (D7E11) Rabbit mAb						
Stor				Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#			3 Trask L	ane Danvers Ma	ssachusetts 01923 USA	
For Research Use Only. Not for	Use in Diagnostic Proce					
Applications: Reactiv WB, IP H M		MW (kDa): 26	Source/Isotype: Rabbit IgG	UniProt ID: #O43521	Entrez-Gene Id: 10018	
Product Usage	Application			Dilution	I	
Information	Western Blotting				1:1000	
	Immunoprecipitation			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 / Sensitivity	Phospho-Bim (Ser69) (D7E11) Rabbit mAb detects endogenous levels of Bim protein only when phosphorylated at Ser69.					
Species predicted to react based on 100% sequence homology:	Rat, Monkey, Dog					
Source / Purification	Monoclonal antibody is p residues surrounding Se	-	-	synthetic phosphope	eptide corresponding to	
Background	Bim/Bod is a pro-apoptotic protein belonging to the BH3-only group of Bcl-2 family members including Bad, Bid, Bik, Hrk, and Noxa that contain a BH3 domain but lack other conserved BH1 or BH2 domains (1,2). Bim induces apoptosis by binding to and antagonizing anti-apoptotic members of the Bcl-2 family. Interactions have been observed with Bcl-2, Bcl-xL, Mcl-1, Bcl-w, Bfl-1, and BHRF-1 (1,2). Bim functions in regulating apoptosis associated with thymocyte negative selection and following growth factor withdrawal, during which Bim expression is elevated (3-6). Three major isoforms of Bim are generated by alternative splicing: Bim _{EL} , Bim _L , and Bim _S (1). The shortest form, Bim _S , is the most cytotoxic and is generally only transiently expressed during apoptosis. The Bim _{EL} and Bim _L isoforms may be sequestered to the dynein motor complex through an interaction with the dynein light chain and released from this complex during apoptosis (7). Apoptotic activity of these longer isoforms may be regulated by phosphorylation (8,9). Environmental stress triggers Bim phosphorylation by JNK and results in its dissociation from the dynein complex and increased apoptotic activity. ERK 1/2-dependent phosphorylation of Bim _{EL} at Ser69 (Ser65 in mouse and rat) in response to growth factor stimulation can promote its proteasome-mediated degradation and enhance cell survival (6,10,11).					
Background References	 O'Connor, L. et al. (19) Hsu, S.Y. et al. (1998) Bouillet, P. et al. (2002) Whitfield, J. et al. (2002) Dijkers, P.F. et al. (2003) J Puthalakath, H. et al. (2003) Putcha, G.V. et al. (2003) Putciano, F. et al. (2003) Luciano, M. et al. (2003) 	Mol Endocrinol 2) Nature 415, 92 1) Neuron 29, 6 00) Curr Biol 10, Biol Chem 278, (1999) Mol Cell 2, (2003) Proc Na 03) Neuron 38, 3) Oncogene 22	12, 1432-40. 22-6. 29-43. 1201-4. 18811-6. 3, 287-96. <i>itl Acad Sci U S A</i> 100, 2 899-914. , 6785-93.	432-7.		
Species Reactivity	Species reactivity is deter	rmined by testing	g in at least one approve	d application (e.g.,	western blot).	
Western Blot Buffer	IMPORTANT: For western 0.1% Tween® 20 at 4°C v			primary antibody in	5% w/v BSA, 1X TBS,	

3/23/24, 11:11 AM Ph	ospho-Bim (Ser69) (D7E11) Rabbit mAb (#4585) Datasheet Without Images Cell Signaling Technology		
Applications Key	WB: Western Blotting IP: Immunoprecipitation		
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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