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Cell Signaling Phospho-53BP1 (Ser1618) TECHNOLOGY® Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324)

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For Research Use Only. Not for Use in Diagnostic Procedures.

(D4H11) Rabbit mAb

Applications: React WB H		MW (kDa): 450	Source/Isotype: Rabbit IgG	UniProt ID: #Q12888	Entrez-Gene Id: 7158
Product Usage Information	Application Western Blotting			Dilution 1:1000	
Storage			7.5), 150 mM NaCl, 100 o not aliquot the antibody		erol and less than
Specificity / Sensitivity	Phospho-53BP1 (Ser16 when phosphorylated a	, , ,	bbit mAb recognizes end	logenous levels of 53	3P1 protein only
Species predicted to react based on 100% sequence homology:	Mouse, Monkey				
Source / Purification	Monoclonal antibody is residues surrounding S		nunizing animals with a s 53BP1 protein.	synthetic peptide corre	esponding to
Background	transcriptional activity o allow for binding to p53 (3). 53BP1 rapidly trans radiomimetic agents tha DSBs and homology to Recruitment of 53BP1 t and DNA-PK (4) and re 53BP1, phosphorylatior response to IR, phosph but phosphorylation at t	If p53 (1,2). 53BF and a separate of slocates to nuclea at cause DNA do the yeast protein to sites of DNA da tention of 53BP1 n of ATM substration orylation of 53BF these sites is not	hally identified as a p53 P1 consists of two BRCA domain responsible for b ar foci following treatmer uble strand breaks (DSB n Rad9, a role for 53BP1 amage has been demon at DNA breaks requires res is reduced, suggestir P1 at serines 6, 25, 29, a required for localization as been reported to be e	1 carboxy terminal (Bl inding to phosphoryla at of cells with ionizing s) (4,5). Because of th in DSB repair has be strated to be independ phosphorylated H2A. ng that 53BP1 is upstru- nd 784 by ATM has be of 53BP1 to sites of D	RCT) domains that ted histone H2A.X radiation (IR) or his localization to en proposed. dent of ATM, NBS1, X (6). In cells lacking eam of ATM (7). In een demonstrated, VSBs (6).
Background References	 Iwabuchi, K. et al. (19) Iwabuchi, K. et al. (19) Mochan, T.A. et al. (2) Schultz, L.B. et al. (2) Anderson, L. et al. (2) Ward, I.M. et al. (200) DiTullio, R.A. et al. (2) Dephoure, N. et al. (2) 	999) J. Biol. Cher 2004) DNA Repai 000) J. Cell Biol. 001) Mol. Cell. B 3) J. Biol. Chem. 2002) Nat. Cell Bi	n. 273, 26061-8. r (Amst) 3, 945-52. 151, 1381-90. iol. 21, 1719-29. 278, 19579-82. ol. 4, 998-1002.		
Species Reactivity	Species reactivity is dete	ermined by testin	g in at least one approve	ed application (e.g., we	estern blot).
Western Blot Buffer	IMPORTANT: For wester 0.1% Tween® 20 at 4°C			primary antibody in 59	% w/v BSA, 1X TBS,
Applications Key	WB: Western Blotting				

1/1/24, 9:10 AM Phospho-53BP1 (Ser1618) (D4H11) Rabbit mAb (#6209) Datasheet Without Images Cell Signaling Technology		
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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