Phospho-RPA32/RPA2 (Ser8) Antibody				CHNOLOGY®		
Stor				Orders:	877-616-CELL (2355) orders@cellsignal.com	
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837				Web:	info@cellsignal.com cellsignal.com	
			3 Trask L	ane Danvers Mas	ssachusetts 01923 USA	
For Research Use Only. Not for U Applications: Reactiv		edures. MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:	
WB, IP H	Endogenous	32	Rabbit	#P15927	6118	
Product Usage	Application			Dilution		
Information	Western Blotting			1:1000	1:1000	
	Immunoprecipitation			1:50		
Storage	Supplied in 10 mM sodi 20°C. Do not aliquot the		5), 150 mM NaCl, 100	μg/ml BSA and 50%	glycerol. Store at –	
Specificity / Sensitivity	Phospho-RPA32/RPA2 (Ser8) Antibody recognizes endogenous levels of RPA32/RPA2 protein only when phosphorylated at Ser8.			A2 protein only when		
Source / Purification	Polyclonal antibodies at residues surrounding S affinity chromatography	er8 of human RPA3	0			
Background	RPA70 (HSSB, REPA1, 32/30, and 14 kDa subu whose DNA binding act almost all aspects of ce DNA damage checkpoin mismatch, and double-s has been shown to asso hyperphosphorylated up telangiectasia mutated (9-11). Phosphorylation RPA-DNA and RPA-pro variety of protein partne α, and also proteins inv (10,12).	units, collectively kr ivity is believed to r llular DNA metabol nts, and all major ty strand break repairs ociate with the Rad oon DNA damage of (ATM), ATM and Ra of RPA32 occurs a tein interactions. In ers, including protei	nown as RPA. RPA is a eside entirely in the 70 ism such as DNA repli rpes of DNA repair incl s (4-7). In response to 9/Rad1/Hus1 (9-1-1) of or replication stress by ad3-related (ATR), and tt serines 4, 8, and 33 addition to the checkp ns required for normal	a single-stranded DN D kDa subunit. The c cation (1-3), recomb uding nucleotide exi genotoxic stress in a checkpoint complex checkpoint kinases I DNA-dependent pr (11). Hyperphospho point partners, RPA i replication such as	IA binding protein, complex is required for bination, cell cycle and cision, base excision, eukaryotic cells, RPA (8). RPA is including ataxia otein kinase (DNA-PK) brylation may alter interacts with a wide RCF, PCNA, and Pol	
Background References	1. Liu, V.F. and Weaver, 2. Wobbe, C.R. et al. (1 3. Fairman, M.P. and St 4. Wold, M.S. and Kelly, 5. Zhou, B.B. and Elledg 6. Kastan, M.B. and Bau 7. Sancar, A. et al. (200 8. Guo, S. et al. (2005) 9. Wu, X. et al. (2005) 10. Binz, S.K. et al. <i>DNA</i> 11. Nuss, J.E. et al. (200 12. Yuzhakov, A. et al. (1	987) Proc. Natl. Ac illman, B. (1988) En , T. (1988) Proc. Na ge, S.J. (2000) Natu tek, J. (2004) Natu 4) Annu. Rev. Biocu J Biol Chem 281, 2 Dincogene 24, 4728 Repair (Amst) 3, 1 5) Biochemistry 44	ad. Sci. USA 84, 1834 MBO J. 7, 1211-8. ttl. Acad. Sci. USA 85, ure 408, 433-9. re 432, 316-23. hem. 73, 39-85. 1607-16. -35. 015-24. , 8428-37.			
Species Reactivity	Species reactivity is dete	ermined by testing i	n at least one approve	ed application (e.g., v	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 Cross-Reactivity Key	WB: Western Blotting IF	P: I mmunoprecipita	tion			

1/1/24, 3:40 PM	Phospho-RPA32/RPA2 (Ser8) Antibody (#83745) Datasheet Without Images Cell Signaling Technology
	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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