Phospho-p53 (Ser15) Antibody			BI Signaling C H N O L O G Y° 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324)	
#9284			Web:	info@cellsignal.com
6				cellsignal.com
For Research Use Only. Not for	Use in Diagnostic Procedures		_ane Danvers Mas	ssachusetts 01923 USA
Applications: Reactive WB, IP, ChIP H M R	vity: Sensitivity: MW	(kDa): Source: 53 Rabbit	UniProt ID: #P04637	Entrez-Gene Id: 7157
Product Usage Information	For optimal ChIP results, use 5 This antibody has been validate	μl of antibody and 10 μg of chro ed using SimpleChIP [®] Enzymatic	matin (approximately c Chromatin IP Kits.	4 x 10 ⁶ cells) per IP.
	Application		Dilution	
	Western Blotting		1:1000	
	Immunoprecipitation		1:200	
	Chromatin IP		1:100	
Storage	Supplied in 10 mM sodium HEF 20°C. Do not aliquot the antibod	PES (pH 7.5), 150 mM NaCl, 100 dy.) μg/ml BSA and 50%	glycerol. Store at –
Specificity / Sensitivity	,	detects endogenous levels of p5 act with p53 phosphorylated at o		orylated at serine 15.
Species predicted to react based on 100% sequence homology:	Mink, Bovine, Pig			
Source / Purification		iced by immunizing animals with of human p53. Antibodies are pu		
Background	genomic aberrations. Activation p53 is phosphorylated at multip damage induces phosphorylatic p53 and its negative regulator, t for ubiquitination and proteason PK at Ser15 and Ser37. Phospl accumulation and activation of p53 at Ser20, enhancing its tetr vivo (10,11) and by CAK <i>in vitro</i> and has been reported to influe activation of p53 (10,13,14). p5 <i>in vivo</i> (13,15). Phosphorylation Acetylation of p53 is mediated the suppressing MDM2 from recruit play a positive role in the accum human p53 becomes acetylated	ein plays a major role in cellular i of p53 can lead to either cell cyr le sites <i>in vivo</i> and by several dif on of p53 at Ser15 and Ser20 an the oncoprotein MDM2 (4). MDM nal degradation (5,6). p53 can be norylation impairs the ability of M p53 in response to DNA damage amerization, stability, and activity 0 (11). Phosphorylation of p53 at nce the growth suppressor funct 3 is phosphorylated at Ser6 and of p53 at Ser46 regulates the al oy p300 and CBP acetyltransfera ting HDAC1 complex by p19 (AR nulation of p53 protein in stress i d at Lys382 (Lys379 in mouse) <i>in</i> ough interaction with the SIRT1 amage response (19).	cle arrest and DNA re fferent protein kinase d leads to a reduced l2 inhibits p53 accum e phosphorylated by IDM2 to bind p53, pro- (4,7). Chk2 and Chk y (8,9). p53 is phosph Ser392 is increased ion, DNA binding, and Ser9 by CK1δ and C bility of p53 to induce ases. Inhibition of dea RF) stabilizes p53. Acc response (17). Follow o vivo to enhance p53	epair or apoptosis (1). s <i>in vitro</i> (2,3). DNA interaction between ulation by targeting it ATM, ATR, and DNA- omoting both the c1 can phosphorylate norylated at Ser392 <i>in</i> in human tumors (12) d transcriptional K1ɛ both <i>in vitro</i> and e apoptosis (16). acetylation etylation appears to <i>i</i> ng DNA damage, B-DNA binding (18).
Background References	6. Honda, R. et al. (1997) FEBS 7. Tibbetts, R.S. et al. (1999) G 8. Shieh, S.Y. et al. (1999) EMB 9. Hirao, A. et al. (2000) Science	ancer Biol 5, 203-10. Life Sci 60, 1-11. 91, 325-34. roc Natl Acad Sci U S A 96, 1377 5 Lett 420, 25-7. enes Dev 13, 152-7. 80 J 18, 1815-23. e 287, 1824-7.	77-82.	

/24, 11:42 AM	 Phospho-p53 (Ser15) Antibody (#9284) Datasheet Without Images Cell Signaling Technology 10. Hao, M. et al. (1996) <i>J Biol Chem</i> 271, 29380-5. 11. Lu, H. et al. (1997) <i>Mol Cell Biol</i> 17, 5923-34. 12. Ullrich, S.J. et al. (1993) <i>Proc Natl Acad Sci U S A</i> 90, 5954-8. 13. Kohn, K.W. (1999) <i>Mol Biol Cell</i> 10, 2703-34. 14. Lohrum, M. and Scheidtmann, K.H. (1996) <i>Oncogene</i> 13, 2527-39. 15. Knippschild, U. et al. (1997) <i>Oncogene</i> 15, 1727-36. 16. Oda, K. et al. (2000) <i>Cell</i> 102, 849-62. 17. Ito, A. et al. (2001) <i>EMBO J</i> 20, 1331-40. 18. Sakaguchi, K. et al. (1998) <i>Genes Dev</i> 12, 2831-41. 19. Solomon, J.M. et al. (2006) <i>Mol Cell Biol</i> 26, 28-38. 		
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).		
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.		
Applications Key	WB: Western Blotting IP: Immunoprecipitation ChIP: Chromatin IP		
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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