Phospho-p53 (Ser392) Antibody





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Applications: W	Reactivity: H M Mi	Sensitivity: Endogenous	MW (kDa): 53	Source/Isotype: Rabbit	UniProt ID: #P04637	Entrez-Gene Id: 7157
Product Usage Information	9	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM soo 20°C. Do not aliquot tl		ö), 150 mM NaCl, 100 μg/	ml BSA and 50% gly	/cerol. Store at –
Specificity/Sen	sitivity			ndogenous levels of p5 ith p53 phosphorylated		orylated at serine
Source / Purifi	cation		dues surrounding S	munizing animals with a er392 of human p53. Po raphy.		
Background		genomic aberrations. (1). p53 is phosphoryla DNA damage induces between p53 and its m by targeting it for ubic ATM, ATR, and DNA-PH promoting both the ac Chk1 can phosphoryla phosphorylated at Ser increased in human tu DNA binding, and tran by CK16 and CK1c bot of p53 to induce apop Inhibition of deacetyla p53. Acetylation appea (17). Following DNA da enhance p53-DNA bin	Activation of p53 ca ated at multiple site phosphorylation of regative regulator, t quitination and pro- X at Ser15 and Ser3 ccumulation and ac ate p53 at Ser20, en 392 <i>in vivo</i> (10,11) umors (12) and has nscriptional activati- h <i>in vitro</i> and <i>in viv</i> tosis (16). Acetylati- ation suppressing M ars to play a positiv amage, human p53 ding (18). Deacetylati-	a major role in cellular ro an lead to either cell cycl es <i>in vivo</i> and by several f p53 at Ser15 and Ser20 he oncoprotein MDM2 (teasomal degradation (5 7. Phosphorylation impa- tivation of p53 in respor hancing its tetramerizat and by CAK <i>in vitro</i> (11). been reported to influer on of p53 (10,13,14). p53 <i>o</i> (13,15). Phosphorylatio on of p53 is mediated by 1DM2 from recruiting HI e role in the accumulatio becomes acetylated at la ation of p53 occurs throu lular aging and the DNA	e arrest and DNA re different protein kir and leads to a redu 4). MDM2 inhibits p ,6). p53 can be phos irs the ability of MD ise to DNA damage ion, stability, and ac Phosphorylation of the the growth supp is phosphorylated on of p53 at Ser46 re p300 and CBP acet 0AC1 complex by p1 on of p53 protein in Lys382 (Lys379 in m ugh interaction with	pair or apoptosis hases <i>in vitro</i> (2,3). iced interaction 53 accumulation sphorylated by M2 to bind p53, (4,7). Chk2 and tivity (8,9). p53 is p53 at Ser392 is pressor function, at Ser6 and Ser9 egulates the ability yltransferases. 9 (ARF) stabilizes stress response ouse) <i>in vivo</i> to the SIRT1 protein,
Background R	eferences	6. Honda, R. et al. (199 7. Tibbetts, R.S. et al. (8. Shieh, S.Y. et al. (199 9. Hirao, A. et al. (2000 10. Hao, M. et al. (1996) 11. Lu, H. et al. (1997) 12. Ullrich, S.J. et al. (1 13. Kohn, K.W. (1999)	emin Cancer Biol 5, (1997) Life Sci 60, 1 97) Cell 91, 325-34. (1999) Proc Natl Acc 97) FEBS Lett 420, 2 1999) Genes Dev 1 99) EMBO J 18, 1815 99) EMBO J 18, 1815 99) ECON CEL 80, 1824 6) J Biol Chem 271, Mol Cell Biol 17, 59 993) Proc Natl Acac Mol Biol Cell 10, 27(cheidtmann, K.H. (1 al. (1997) Oncogene 9) Cell 102, 849-62. EMBO J 20, 1331-40 (1998) Genes Dev	-11. ad Sci U S A 96, 13777-82 5-7. 3, 152-7. -23. -7. 29380-5. 23-34. <i>I Sci U S A</i> 90, 5954-8. 03-34. 996) Oncogene 13, 2527 e 15, 1727-36. 0. 12, 2831-41.		

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.		
Applications Key	W: Western Blotting		
Cross-Reactivity Key	H: Human M: Mouse Mi: Mink		
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