Phospho-p53 (Ser6) Antibody





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Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 53	Source/Isotype: Rabbit	UniProt ID: #P04637	Entrez-Gene Id: 7157
Product Usage Information	•	Application Western Blotting Immunoprecipitatior	1		Dilution 1:1000 1:100	
Storage		· · · · Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				ycerol. Store at –
Specificity/Sen	sitivity	Phospho-p53 (Ser6) Antibody detects endogenous levels of p53 only when phosphorylated at serine 6. The antibody does not cross-react with p53 phosphorylated at other sites.				
Species predic based on 100% homology		Hamster				
Source / Purifi	cation		idues surrounding s	nmunizing animals with Ser6 of hamster p53. Ant		
Background		genomic aberrations. (1). p53 is phosphory DNA damage induces between p53 and its by targeting it for ubi ATM, ATR, and DNA-P promoting both the a Chk1 can phosphoryl phosphorylated at Se increased in human t DNA binding, and tra by CK18 and CK1ɛ bo of p53 to induce apop Inhibition of deacetyl p53. Acetylation appe (17). Following DNA di enhance p53-DNA bir	Activation of p53 c lated at multiple sit sphosphorylation of negative regulator, quitination and pro K at Ser15 and Ser3 ccumulation and ar ate p53 at Ser20, er r392 <i>in vivo</i> (10,11) umors (12) and has nscriptional activati th <i>in vitro</i> and <i>in vi</i> totosis (16). Acetylati ation suppressing N ears to play a positiv lamage, human p53 nding (18). Deacetyl	a major role in cellular r an lead to either cell cyc es <i>in vivo</i> and by several f p53 at Ser15 and Ser20 the oncoprotein MDM2 (teasomal degradation (5 7. Phosphorylation impa- ctivation of p53 in respon- hancing its tetramerizat and by CAK <i>in vitro</i> (11). been reported to influer ion of p53 (10,13,14). p53 <i>vo</i> (13,15). Phosphorylation on of p53 is mediated by MDM2 from recruiting HI <i>ve</i> role in the accumulation ation of p53 occurs throu llular aging and the DNA	le arrest and DNA re different protein ki) and leads to a redu (4). MDM2 inhibits p 5,6). p53 can be pho airs the ability of MI nse to DNA damage tion, stability, and a Phosphorylation of nce the growth sup 3 is phosphorylated on of p53 at Ser46 r y p300 and CBP ace DAC1 complex by p on of p53 protein in Lys382 (Lys379 in m ugh interaction with	epair or apoptosis nases <i>in vitro</i> (2,3). uced interaction 153 accumulation 153 accumulation 155 accumulation 155 accumulation 155 accumulation 150 per 152 150 p
Background R	eferences	6. Honda, R. et al. (19 7. Tibbetts, R.S. et al. 8. Shieh, S.Y. et al. (19 9. Hirao, A. et al. (200 10. Hao, M. et al. (1997) 11. Lu, H. et al. (1997) 12. Ullrich, S.J. et al. (7 13. Kohn, K.W. (1999)	Semin Cancer Biol 5 . (1997) Life Sci 60, . (1997) Cell 91, 325-34. (1999) Proc Natl Ac 97) FEBS Lett 420, 2 (1999) Genes Dev 1 99) EMBO J 18, 181 0) Science 287, 182 06) J Biol Chem 271, 1 Mol Cell Biol 17, 59 1993) Proc Natl Aca Mol Biol Cell 10, 27 cheidtmann, K.H. (1 al. (1997) Oncogen 0) Cell 102, 849-62.	1-11. <i>ad Sci U S A</i> 96, 13777-82 15-7. 3, 152-7. 5-23. 4-7. 29380-5. 923-34. <i>d Sci U S A</i> 90, 5954-8. 03-34. 03-34. 1996) <i>Oncogene</i> 13, 2527 <i>e</i> 15, 1727-36.		

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 IP: Immunoprecipitation
Cross-Reactivity Key	H: Human Mk: Monkey
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