Phospho-p53 (Ser20) Antibody





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| Applications: W | Reactivity: H Mk | Sensitivity: Endogenous | MW (kDa): 53 | Source/Isotype: Rabbit | UniProt ID: #P04637 | Entrez-Gene Id: 7157 |
|------------------------------|----------------------------|---|---|---|--|--|
| Product Usage Information | | Application Western Blotting | | | Dilution 1:1000 | |
| Storage | | Supplied in 10 mM soc 20°C. Do not aliquot th | |), 150 mM NaCl, 100 μg/ | ml BSA and 50% gly | vcerol. Store at – |
| Specificity/Sens | itivity | | | dogenous levels of p53 h p53 phosphorylated a | | orylated at serine |
| Source / Purifica | ition | | dues surrounding S | munizing animals with a er20 of human p53. Ant | | |
| Background | | genomic aberrations. <i>i</i> (1). p53 is phosphoryla DNA damage induces between p53 and its n by targeting it for ubio ATM, ATR, and DNA-PK promoting both the ac Chk1 can phosphoryla phosphorylated at Ser increased in human tu DNA binding, and tran by CK1& and CK1& both of p53 to induce apopp Inhibition of deacetyla p53. Acetylation appea (17). Following DNA da enhance p53-DNA bind | Activation of p53 ca ated at multiple site phosphorylation of egative regulator, t quitination and prof (at Ser15 and Ser3) cumulation and ac te p53 at Ser20, en 392 <i>in vivo</i> (10,11) imors (12) and has iscriptional activativ h <i>in vitro</i> and <i>in viv</i> tosis (16). Acetylativ tion suppressing M ars to play a positiv amage, human p53 ding (18). Deacetylativ | a major role in cellular ro in lead to either cell cycl is <i>in vivo</i> and by several p53 at Ser15 and Ser20 he oncoprotein MDM2 (ceasomal 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 o (13,15). Phosphorylatio on of p53 is mediated by IDM2 from recruiting HI e role in the accumulation becomes acetylated at la- tion of p53 occurs throu- ular 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 pho- 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 DAC1 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). uced 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 Ref | erences | 6. Honda, R. et al. (199 7. Tibbetts, R.S. 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. (19 13. Kohn, K.W. (1999) | emin Cancer Biol 5, (1997) Life Sci 60, 1 (1997) Cell 91, 325-34. 1999) Proc Natl Aca (7) FEBS Lett 420, 24 1999) Genes Dev 13 (9) EMBO J 18, 1815 (9) Science 287, 1824 (5) J Biol Chem 271, 3 Mol Cell Biol 17, 59 (93) Proc Natl Acac Mol Biol Cell 10, 27 (heidtmann, K.H. (1 (1997) Oncogene (1998) Genes Dev (1998) Genes Dev | -11. ad Sci U S A 96, 13777-82 5-7. 8, 152-7. -23. -7. 29380-5. 23-34. <i>I Sci U S A</i> 90, 5954-8. 3-34. 996) Oncogene 13, 2527 215, 1727-36. 0. | | |

| 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 Mk: Monkey | | |
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