#

p53 (7F5) Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: H Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P04637	Entrez-Gene Id: 7157
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), antibodies. Protect from		zide and 2 mg/ml BS/	A. Store at 4°C. Do not aliquot the
Specificity/Sensi	tivity		Conjugate) detects endo ed to the amino terminus		al p53 protein. This antibody 3 protein.
Source / Purifica	tion	Monoclonal antibody is p	produced by immunizing	animals with a full-le	ngth human p53 fusion protein.
Description			alysis in human cells. The	antibody is expected	n (PE) and tested in-house for I to exhibit the same species
Background		genomic aberrations. Ac (1). p53 is phosphorylate DNA damage induces ph between p53 and its neg by targeting it for ubiqui ATM, ATR, and DNA-PK a promoting both the accu Chk1 can phosphorylate phosphorylated at Ser39 increased in human tum DNA binding, and transco by CK16 and CK1e both <i>i</i> of p53 to induce apoptos Inhibition of deacetylatio p53. Acetylation appears (17). Following DNA dam	tivation of p53 can lead to d at multiple sites <i>in vivo</i> iosphorylation of p53 at S ative regulator, the oncop tination and proteasoma t Ser15 and Ser37. Phosp imulation and activation of p53 at Ser20, enhancing 2 <i>in vivo</i> (10,11) and by C ors (12) and has been rep riptional activation of p53 <i>n vitro</i> and <i>in vivo</i> (13,15) sis (16). Acetylation of p53 on suppressing MDM2 fro to play a positive role in age, human p53 become ing (18). Deacetylation of p53	b either cell cycle are and by several differ Ser15 and Ser20 and l protein MDM2 (4). MI I degradation (5,6). p horylation impairs th of p53 in response to its tetramerization, s AK <i>in vitro</i> (11). Phosp ported to influence th 3 (10,13,14). p53 is ph . Phosphorylation of B is mediated by p300 pm recruiting HDAC1 the accumulation of s acetylated at Lys38 p53 occurs through in	est to DNA damage and other est and DNA repair or apoptosis ent protein kinases <i>in vitro</i> (2,3). leads to a reduced interaction DM2 inhibits p53 accumulation 53 can be phosphorylated by e ability of MDM2 to bind p53, DNA damage (4,7). Chk2 and tability, and activity (8,9). p53 is phorylation of p53 at Ser392 is re growth suppressor function, hosphorylated at Ser6 and Ser9 p53 at Ser46 regulates the ability and CBP acetyltransferases. complex by p19 (ARF) stabilizes p53 protein in stress response 2 (Lys379 in mouse) <i>in vivo</i> to interaction with the SIRT1 protein, age response (19).
Background Ref	erences	1. Levine, A.J. (1997) <i>Cell</i> 2. Meek, D.W. (1994) <i>Sen</i> 3. Milczarek, G.J. et al. (19 4. Shieh, S.Y. et al. (1997) 5. Chehab, N.H. et al. (1997) 7. Tibbetts, R.S. et al. (1997) 9. Hirao, A. et al. (2000) 5 10. Hao, M. et al. (1999) 9. Hirao, A. et al. (1997) <i>M</i> 11. Lu, H. et al. (1997) <i>M</i> 12. Ullrich, S.J. et al. (1997) 13. Kohn, K.W. (1999) <i>M</i> 14. Lohrum, M. and Sche 15. Knippschild, U. et al. 16. Oda, K. et al. (2001) <i>E</i> 18. Sakaguchi, K. et al. (1 19. Solomon, J.M. et al. (2001)	nin Cancer Biol 5, 203-10. 297) Life Sci 60, 1-11. Cell 91, 325-34. 99) Proc Natl Acad Sci U 5 FEBS Lett 420, 25-7. 99) Genes Dev 13, 152-7. EMBO J 18, 1815-23. Science 287, 1824-7. Biol Chem 271, 29380-5. 50 Cell Biol 17, 5923-34. 3) Proc Natl Acad Sci U 5 J Hoi Cell 10, 2703-34. idtmann, K.H. (1996) Ond (1997) Oncogene 15, 172 Sell 102, 849-62. 180 J 20, 1331-40. 998) Genes Dev 12, 2831-	4 90, 5954-8. cogene 13, 2527-39. 7-36.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).		
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)		
Cross-Reactivity Key	H: Human Mk: Monkey		
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