Acetyl-p53 (Lys379) Antibody





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Applications: W	Reactivity: H M	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 so 20°C. Do not aliquot t		5), 150 mM NaCl, 100 μg/	ml BSA and 50% gly	/cerol. Store at –
Specificity/Sen	sitivity	Acetyl-p53 (Lys379) Ar protein) or Lys382 (hu		ogenous levels of p53 o	nly when acetylated	at Lys379 (mouse
Source / Purific	cation		dues surrounding L	munizing animals with a ys379 of mouse p53. An		
Background		genomic aberrations. (1). p53 is phosphoryl. DNA damage induces between p53 and its r by targeting it for ubid ATM, ATR, and DNA-PI promoting both the a Chk1 can phosphorylated at Ser increased in human to DNA binding, and trar by CK18 and CK12 bot of p53 to induce apop Inhibition of deacetyla p53. Acetylation appe (17). Following DNA di enhance p53-DNA bin	Activation of p53 ca ated at multiple site phosphorylation o negative regulator, to quitination and pro K at Ser15 and Ser3 ccumulation and ac ate p53 at Ser20, en r392 <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 positiva 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 4DM2 from recruiting HI re 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 kin and leads to a redu 4). MDM2 inhibits pl ,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 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). 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 Re	eferences	 Honda, R. et al. (199 Tibbetts, R.S. et al. (Shieh, S.Y. et al. (199 Hirao, A. et al. (2000 Hao, M. et al. (199 Lu, H. et al. (1997) Ullrich, S.J. et al. (1 Kohn, K.W. (1999) 	Semin Cancer Biol 5, (1997) Life Sci 60, 1 97) Cell 91, 325-34. (1999) Proc Natl Act 97) FEBS Lett 420, 2 (1999) Genes Dev 1 99) EMBO J 18, 1815 99) EMBO J 18, 1815 99) ECON 287, 1824 6) J Biol Chem 271, Mol Cell Biol 17, 59 993) Proc Natl Acad Mol Biol Cell 10, 27 Cheidtmann, K.H. (1 al. (1997) Oncogene 0) 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. 5-23. 1-7. 29380-5. 23-34. <i>1 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		
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