Phospho-p53 (Ser15) (16G8) Mouse mAb





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Applications: W, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 53	Source/Isotype: Mouse IgG1	UniProt ID: #P04637	Entrez-Gene Id: 7157
Product Usage Information		Application Western Blotting Immunofluorescence Flow Cytometry (Fixed	```	stry)		Dilution 1:1000 1:400 1:1600
Storage), 150 mM NaCl, 100 µg, ot aliquot the antibody.	/ml BSA, 50% glyce	rol and less than
		For a carrier free (BSA	and azide free) vers	sion of this product see	product #56979.	
Specificity/Sensit	tivity			detects endogenous lev react with p53 phospho		
Source / Purificat	tion	Monoclonal antibody i corresponding to resid	s produced by imm dues surrounding So	unizing animals with a s er15 of human p53.	synthetic phosphor	peptide
Background		genomic aberrations (1). p53 is phosphoryla DNA damage induces between p53 and its n by targeting it for ubic ATM, ATR, and DNA-PK promoting both the ac Chk1 can phosphoryla phosphorylated at Ser increased in human tu DNA binding, and tran by CK16 and CK1c 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, th quitination and prot (at Ser15 and Ser37 cumulation and act te p53 at Ser20, enh 392 <i>in vivo</i> (10,11) a umors (12) and has h iscriptional activation h <i>in vitro</i> and <i>in vivo</i> tosis (16). Acetylatio tion suppressing M ars to play a positivo amage, human p53 ding (18). Deacetyla	a major role in cellular ro n lead to either cell cycl s <i>in vivo</i> and by several p53 at Ser15 and Ser20 he oncoprotein MDM2 (easomal degradation (5 7. Phosphorylation impa- civation of p53 in respon- hancing its tetramerizat and by CAK <i>in vitro</i> (11). been reported to influer on of p53 (10,13,14). p53 b (13,15). Phosphorylation on of p53 is mediated by DM2 from recruiting HI e role in the accumulation becomes acetylated at a tion of p53 occurs throo ular aging and the DNA	e arrest and DNA r different protein ki and leads to a red 4). MDM2 inhibits p ,6). p53 can be pho irs the ability of MI rese to DNA damage ion, stability, and a Phosphorylation of the growth sup bis phosphorylated on of p53 at Ser46 for p300 and CBP ace DAC1 complex by p on of p53 protein ir Lys382 (Lys379 in n ugh interaction witl	epair or apoptosis nases <i>in vitro</i> (2,3). uced interaction b53 accumulation sphorylated by DM2 to bind p53, e (4,7). Chk2 and ctivity (8,9). p53 is f p53 at Ser392 is pressor function, at Ser6 and Ser9 regulates the ability tyltransferases. 19 (ARF) stabilizes a stress response nouse) <i>in vivo</i> to n the SIRT1 protein,
Background Refe	erences	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. (1999)	emin Cancer Biol 5, (1997) Life Sci 60, 1- 07) Cell 91, 325-34. 1999) Proc Natl Aca 77) FEBS Lett 420, 25 1999) Genes Dev 13 09) EMBO J 18, 1815 05 J Biol Chem 271, 2 Mol Cell Biol 17, 59 093) Proc Natl Acad Mol Biol Cell 10, 270 heidtmann, K.H. (19 al. (1997) Oncogene 1) Cell 102, 849-62. EMBO J 20, 1331-40	.11. <i>d Sci U S A</i> 96, 13777-82 7. .9380-5. 23-34. <i>Sci U S A</i> 90, 5954-8. 3-34. 996) <i>Oncogene</i> 13, 2527 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human
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