Conjugate)

Store at +4C

35

Phospho-p53 (Ser15) (16G8) Mouse mAb (Alexa Fluor[®] 488



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Reactiv FC-FP H	ity: Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P04637	Entrez-Gene Id: 7157
Product Usage Information	Application Flow Cytometry (Fixed	d/Permeabilized)		Dilution :50
Storage	Supplied in PBS (pH 7 antibody. Protect from		and 2 mg/ml BSA. Store at 4°C. I	Do not aliquot the
Specificity / Sensitivity	Phospho-p53 (Ser15) (16G8) Mouse mAb (Alexa Fluor [®] 488) detects endogenous levels of p53 only when phosphorylated at Ser15. The antibody does not cross-react with p53 phosphorylated at other sites.			
Source / Purification		Ser15 of human p53. The antibod	s with a synthetic phosphopeptide y was conjugated to Alexa Fluor [®]	
Product Description		chnology antibody is conjugated to /tometry and immunofluorescent	o Alexa Fluor [®] 488 fluorescent dy analysis in human cells.	ve and tested in-
Background	genomic aberrations. A p53 is phosphorylated damage induces phosp p53 and its negative re for ubiquitination and p PK at Ser15 and Ser37 accumulation and activ p53 at Ser20, enhancir vivo (10,11) and by CA and has been reported activation of p53 (10,12 <i>in vivo</i> (13,15). Phosph Acetylation of p53 is m suppressing MDM2 fro play a positive role in th human p53 becomes a Deacetylation of p53 o	Activation of p53 can lead to eithe at multiple sites <i>in vivo</i> and by se phorylation of p53 at Ser15 and S egulator, the oncoprotein MDM2 (proteasomal degradation (5,6). p5 7. Phosphorylation impairs the ab vation of p53 in response to DNA ing its tetramerization, stability, an <i>K in vitro</i> (11). Phosphorylation of 1 to influence the growth suppress 3,14). p53 is phosphorylated at S norylation of p53 at Ser46 regulate rediated by p300 and CBP acetylto im recruiting HDAC1 complex by he accumulation of p53 protein in acetylated at Lys382 (Lys379 in m	cellular response to DNA damage r cell cycle arrest and DNA repair veral different protein kinases <i>in</i> fer20 and leads to a reduced inter 4). MDM2 inhibits p53 accumulati 3 can be phosphorylated by ATM ility of MDM2 to bind p53, promot damage (4,7). Chk2 and Chk1 ca d activity (8,9). p53 is phosphoryl fp53 at Ser392 is increased in his for function, DNA binding, and tra er6 and Ser9 by CK1δ and CK1£ es the ability of p53 to induce apo transferases. Inhibition of deacety p19 (ARF) stabilizes p53. Acetyla stress response (17). Following house) <i>in vivo</i> to enhance p53-DN e SIRT1 protein, a deacetylase tha	r or apoptosis (1). vitro (2,3). DNA raction between ion by targeting it I, ATR, and DNA- ting both the an phosphorylate lated at Ser392 <i>in</i> uman tumors (12) unscriptional both <i>in vitro</i> and optosis (16). vlation ation appears to DNA damage, IA binding (18).
Background References	 Milczarek, G.J. et al. Shieh, S.Y. et al. (19) Chehab, N.H. et al. (19) Chehab, N.H. et al. (19) Chehab, R. et al. (1997) Tibbetts, R.S. et al. (1999) Hirao, A. et al. (2000) Hao, M. et al. (1997) Lu, H. et al. (1997) Ullrich, S.J. et al. (19) Kohn, K.W. (1999) Lohrum, M. and Sch 	Semin Cancer Biol 5, 203-10. . (1997) Life Sci 60, 1-11. 997) Cell 91, 325-34. (1999) Proc Natl Acad Sci U S A 9 97) FEBS Lett 420, 25-7. (1999) Genes Dev 13, 152-7. 99) EMBO J 18, 1815-23. 9) Science 287, 1824-7. 1) J Biol Chem 271, 29380-5. Mol Cell Biol 17, 5923-34. 993) Proc Natl Acad Sci U S A 90 Mol Biol Cell 10, 2703-34. 10 Biol Cell 10 Biol Cell 10, 2703-34. 10 Biol Cell 10 Biol Cell 1	, 5954-8.	

/24, 11:26 AM Phospl	no-p53 (Ser15) (16G8) Mouse mAb (Alexa Fluor® 488 Conjugate) (#9235) Datasheet Without Ima 17. Ito, A. et al. (2001) <i>EMBO J</i> 20, 1331-40. 18. Sakaguchi, K. et al. (1998) <i>Genes Dev</i> 12, 2831-41. 19. Solomon, J.M. et al. (2006) <i>Mol Cell Biol</i> 26, 28-38.		
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 M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 		
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