#12571 Store at -20C

Phospho-p53 (Ser15) (D4S1H) Rabbit mAb

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Applications: WB, IP	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 53	Source/Isotype: Rabbit IgG	UniProt ID: #P02340	Entrez-Gene Id: 22059
Product Usage Information	W	oplication estern Blotting imunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensit		Phospho-p53 (Ser15) (D4S1H) Rabbit mAb recognizes endogenous levels of p53 protein only when phosphorylated at Ser15.			ein only when	
Source / Purification	-	noclonal antibody is idues surrounding Se		nunizing animals with a s 53 protein.	synthetic phosphopep	tide corresponding to
Background	ger p53 dar p53 for PK acc p53 <i>vive</i> and act <i>in v</i> Acc sup pla hur De	nomic aberrations. Ac 3 is phosphorylated a mage induces phospl 3 and its negative reg ubiquitination and pr at Ser15 and Ser37. cumulation and activa 3 at Ser20, enhancing o (10,11) and by CAP d has been reported to ivation of p53 (10,13) <i>vivo</i> (13,15). Phospho etylation of p53 is me opressing MDM2 from y a positive role in the man p53 becomes ac	ctivation of p53 cc at multiple sites <i>in</i> horylation of p53 gulator, the oncop oteasomal degra Phosphorylation ation of p53 in res g its tetramerizati (<i>in vitro</i> (11). Ph to influence the g 14). p53 is phos orylation of p53 a ediated by p300 a n recruiting HDAQ e accumulation of cetylated at Lys38 curs through inte	a major role in cellular r an lead to either cell cyc o vivo and by several diff at Ser15 and Ser20 and orotein MDM2 (4). MDM dation (5,6). p53 can be in impairs the ability of M sponse to DNA damage on, stability, and activity osphorylation of p53 at rowth suppressor functi phorylated at Ser6 and 3 t Ser46 regulates the at and CBP acetyltransfera C1 complex by p19 (AR of p53 protein in stress r az (Lys379 in mouse) <i>in</i> raction with the SIRT1 p sponse (19).	te arrest and DNA rep ferent protein kinases d leads to a reduced ir 2 inhibits p53 accumul phosphorylated by A DM2 to bind p53, pron (4,7). Chk2 and Chk1 (8,9). p53 is phospho Ser392 is increased ir on, DNA binding, and Ser9 by CK1δ and CK bility of p53 to induce a ses. Inhibition of deac F) stabilizes p53. Acet esponse (17). Followir vivo to enhance p53-	air or apoptosis (1). <i>in vitro</i> (2,3). DNA teraction between lation by targeting it FM, ATR, and DNA- noting both the can phosphorylate rylated at Ser392 <i>in</i> thuman tumors (12) transcriptional 1ɛ both <i>in vitro</i> and apoptosis (16). etylation ylation appears to ng DNA damage, DNA binding (18).

1/1/24, 12:10 PM Ph	ospho-p53 (Ser15) (D4S1H) Rabbit mAb (#12571) Datasheet Without Images Cell Signaling Technology			
Background Referenc	 1. Levine, A.J. (1997) <i>Cell</i> 88, 323-31. Meek, D.W. (1994) <i>Semin Cancer Biol</i> 5, 203-10. Milczarek, G.J. et al. (1997) <i>Life Sci</i> 60, 1-11. Shieh, S.Y. et al. (1997) <i>Cell</i> 91, 325-34. Chehab, N.H. et al. (1999) <i>Proc Natl Acad Sci U S A</i> 96, 13777-82. Honda, R. et al. (1997) <i>FEBS Lett</i> 420, 25-7. Tibbetts, R.S. et al. (1999) <i>Genes Dev</i> 13, 152-7. Shieh, S.Y. et al. (1999) <i>EMBO J</i> 18, 1815-23. Hirao, A. et al. (2000) <i>Science</i> 287, 1824-7. Hao, M. et al. (1997) <i>Mol Cell Biol</i> 17, 5923-34. Ullrich, S.J. et al. (1993) <i>Proc Natl Acad Sci U S A</i> 90, 5954-8. Kohn, K.W. (1999) <i>Mol Biol Cell</i> 10, 2703-34. Lohrum, M. and Scheidtmann, K.H. (1996) <i>Oncogene</i> 13, 2527-39. Knippschild, U. et al. (1997) <i>Oncogene</i> 15, 1727-36. Oda, K. et al. (2000) <i>Cell BioJ</i> 20, 1331-40. Sakaguchi, K. et al. (1998) <i>Genes Dev</i> 12, 2831-41. 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).			
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	WB: Western Blotting IP: Immunoprecipitation			
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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