#2267 Store at -20C

RPA70/RPA1 Antibody



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Applications: WB, IP, IF-IC, FC-FP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 70	Source: Rabbit	UniProt ID: #P27694	Entrez-Gene Id: 6117
Product Usage Information	Ą	oplication				Dilution
	W	estern Blotting				1:1000
	Im	munoprecipitation				1:50
	Im	munofluorescence ((Immunocytochemis	stry)		1:50
	Flo	ow Cytometry (Fixed	l/Permeabilized)			1:25
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		RPA70 antibody detects endogenous levels of total RPA70 subunit.				
Source / Purificat	am	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids near the amino terminus of human RPA70. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	32/ who alm DN mis has hyp tela (9-2 RP, var α, ε	30, and 14 kDa sub- ose DNA binding act nost all aspects of ce A damage checkpoi match, and double- s been shown to ass perphosphorylated u angiectasia mutated 11). Phosphorylatior A-DNA and RPA-pro- iety of protein partne	units, collectively kr tivity is believed to r ellular DNA metabol nts, and all major ty strand break repairs ociate with the Rad pon DNA damage of (ATM), ATM and Ra of RPA32 occurs a otein interactions. In ers, including protei	nown as RPA. RPA is reside entirely in the ism such as DNA region of DNA repair is (4-7). In response 9/Rad1/Hus1 (9-1-1) or replication stress ad3-related (ATR), as addition to the chems required for norm	a heterotrimeric complets a sa single-stranded DNA 70 kDa subunit. The complication (1-3), recombined in the polication such as FA polymerase I and SV4	A binding protein, omplex is required for ination, cell cycle and dision, base excision, bukaryotic cells, RPA 8). RPA is ncluding ataxia otein kinase (DNA-PK) rylation may alter nteracts with a wide RCF, PCNA, and Pol
Background Refe	1. Liu, V.F. and Weaver, D.T. (1993) <i>Mol. Cell Biol.</i> 13, 7222-31. 2. Wobbe, C.R. et al. (1987) <i>Proc. Natl. Acad. Sci. USA</i> 84, 1834-8. 3. Fairman, M.P. and Stillman, B. (1988) <i>EMBO J.</i> 7, 1211-8. 4. Wold, M.S. and Kelly, T. (1988) <i>Proc. Natl. Acad. Sci. USA</i> 85, 2523-7. 5. Zhou, B.B. and Elledge, S.J. (2000) <i>Nature</i> 408, 433-9. 6. Kastan, M.B. and Bartek, J. (2004) <i>Nature</i> 432, 316-23. 7. Sancar, A. et al. (2004) <i>Annu. Rev. Biochem.</i> 73, 39-85. 8. Guo, S. et al. (2006) <i>J Biol Chem</i> 281, 21607-16. 9. Wu, X. et al. (2005) <i>Oncogene</i> 24, 4728-35. 10. Binz, S.K. et al. <i>DNA Repair (Amst)</i> 3, 1015-24. 11. Nuss, J.E. et al. (2005) <i>Biochemistry</i> 44, 8428-37.					

12. Yuzhakov, A. et al. (1999) EMBO J. 18, 6189-99.

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

1/1/24. 1:52 PM

RPA70/RPA1 Antibody (#2267) Datasheet Without Images Cell Signaling Technology WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

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 Da: dog Pa: pig Sc: S, cerevisiae Ce: C, elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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