Revision 3			
BRCA1 (A8X9F) Rabbit mAb	C T	Cell Signaling	
	Orders:	877-616-CELL (2355) orders@cellsignal.com	
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Applications: R W, IP	eactivity: H	Sensitivity: Endogenous	MW (kDa): 220	Source/Isotype: Rabbit IgG	UniProt ID: #P38398	Entrez-Gene Id 672	
Product Usage Information		Application Western Blotting Immunoprecipitation			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 aliguot the antibody.					
Specificity/Sensitiv	vity	BRCA1 (A8X9F) Rabbit mAb recognizes endogenous levels of total BRCA1 protein.					
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the amino terminus of human BRCA1 protein.					
Background		hereditary breast and repair, cell cycle progre to be required for loca lacking BRCA1 and BR recombination (HR) (5) identified, including Se cycle-dependent manr Ser1497, respectively (ovarian cancers an ession, transcriptio lization of Rad51 to CA2 cannot repair I . Numerous DNA d er988, 1189, 1387, er, including Aurou 6-10). Cell cycle-de echanism to switch	BRCA1 and BRCA2 are fr d have roles in multiple n, ubiquitination, and ap o sites of double-strande DSBs through the Rad51 amage-induced phosph (423, 1457, 1524, and 19 a A and CDK2, can also bendent phosphorylation off HR as cells progress	processes related t poptosis (1-4). BRCA ed breaks (DSBs) in -dependent proces orylation sites on E 542, and kinases ac phosphorylate BRC n of BRCA2 at Ser3	o DNA damage, 2 has been shown DNA, and cells s of homologous RCA1 have been tivated in a cell A1 at Ser308 and 291 by CDKs has	
Background Refere	ences	 Rahman, N. and Stratton, M.R. (1998) Annu Rev Genet 32, 95-121. Gayther, S.A. et al. (1999) Am J Hum Genet 65, 1021-9. Kerr, P. and Ashworth, A. (2001) Curr Biol 11, R668-76. Scully, R. and Livingston, D.M. (2000) Nature 408, 429-32. Tutt, A. and Ashworth, A. (2002) Trends Mol Med 8, 571-6. Okada, S. and Ouchi, T. (2003) J Biol Chem 278, 2015-20. Cortez, D. et al. (1999) Science 286, 1162-6. Xu, B. et al. (2002) Cancer Res 62, 4588-91. Ouchi, M. et al. (2004) J Biol Chem 279, 19643-8. Ruffner, H. et al. (1999) Mol Cell Biol 19, 4843-54. Esashi, F. et al. (2005) Nature 434, 598-604. 					
Species Reactivity		Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buffe	er	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 IP: Immunoprecipitation					
Cross-Reactivity Ke	ey	H: Human					
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