e at -20C	BRCA1 (A8X9F) Rabbit mAb		Cell Signaling		
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Applications	Bosotivity	Soncitivity								
For Research Use Only. Not for Use in Diagnostic Procedures.										

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 220	Source/Isotype: Rabbit IgG	UniProt ID: #P38398	Entrez-Gene Id: 672		
Product Usage Information	-	oplication estern Blotting			<b>Dilution</b> 1:1000			
	Im	munoprecipitation			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 / Sens	itivity BRO	BRCA1 (A8X9F) Rabbit mAb recognizes endogenous levels of total BRCA1 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the amino terminus of human BRCA1 protein.						
Background		The breast cancer susceptibility proteins BRCA1 and BRCA2 are frequently mutated in cases of hereditary breast and ovarian cancers and have roles in multiple processes related to DNA damage, repair, cell cycle progression, transcription, ubiquitination, and apoptosis (1-4). BRCA2 has been shown to be required for localization of Rad51 to sites of double-stranded breaks (DSBs) in DNA, and cells lacking BRCA1 and BRCA2 cannot repair DSBs through the Rad51-dependent process of homologous recombination (HR) (5). Numerous DNA damage-induced phosphorylation sites on BRCA1 have been identified, including Ser988, 1189, 1387, 1423, 1457, 1524, and 1542, and kinases activated in a cell cycle-dependent manner, including Aurora A and CDK2, can also phosphorylate BRCA1 at Ser308 and Ser1497, respectively (6-10). Cell cycle-dependent phosphorylation of BRCA2 at Ser3291 by CDKs has been proposed as a mechanism to switch off HR as cells progress beyond S-phase by blocking the carboxy-terminal Rad51 binding site (11).						
Background Refe	2. G 3. K 4. S 5. T 6. C 7. C 8. X 9. C 10. F	Gayther, S.A. et al. (1 Gerr, P. and Ashworth Scully, R. and Livings Tutt, A. and Ashworth	L999) Am J Hum h, A. (2001) Curr ston, D.M. (2000) h, A. (2002) Trenc , T. (2003) J Biol 9) Science 286, 1 sancer Res 62, 45 4) J Biol Chem 27 99) Mol Cell Biol 22	Biol 11, R668-76. Nature 408, 429-32. Is Mol Med 8, 571-6. Chem 278, 2015-20. L162-6. 588-91. 79, 19643-8. L9, 4843-54.	5-121.			
Species Reactivit	<b>y</b> Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buf		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	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity Key		<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>						
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BRCA1 (A8X9F) Rabbit mAb (#14823) Datasheet Without Images Cell Signaling Technology

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