BRCA1 (E5S9G) Rabbit mAb (BSA and Azide Free)



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

Applications: W, IHC-Bond, IHC-P, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 220	Source/Isotype: Rabbit IgG	UniProt ID: #P38398	Entrez-Gene Id: 672		
Product Usage Information		This product is the carrier free version of product #50799. All data were generated using the same antibody clone in the standard formulation which contains BSA and glycerol.						
		This formulation is ideal for use with technologies requiring specialized or custom antibody labeling, including fluorophores, metals, lanthanides, and oligonucleotides. It is not recommended for ChIP, ChIP-seq, CUT&RUN or CUT&Tag assays. If you require a carrier free formulation for chromatin profiling, please contact us. Optimal dilutions/concentrations should be determined by the end user.						
		BSA and Azide Free ar determine antibody ir	ntibodies are qualit <u>;</u> ntegrity.	ontrol tested by size exclusion chromatography (SEC) to				
Formulation		Supplied in 1X PBS (10 mM Na $_2$ HPO $_4$, 3 mM KCl, 2 mM KH $_2$ PO $_4$, and 140 mM NaCl (pH 7.8)). BSA and Azide Free.						
		For standard formula	tion of this product	see product #50799				
Storage		Store at -20°C. <i>This product will freeze at -20°C so it is recommended to aliquot into single-use vials to avoid multiple freeze/thaw cycles.</i> A slight precipitate may be present and can be dissolved by gently vortexing. This will not interfere with antibody performance.						
Specificity/Sens	sitivity	BRCA1 (E5S9G) Rabbit Non-specific staining	t mAb (BSA and Azio of kidney tubules w	de Free) recognizes endo as observed by immuno	ogenous levels of to histochemistry.	tal BRCA1 protein.		
Source / Purific	ation	Monoclonal antibody carboxy terminus of h	is produced by imn numan BRCA1 prote	nunizing animals with re in.	combinant protein	specific to the		
Background		The breast cancer sus hereditary breast and repair, cell cycle progr to be required for loc. lacking BRCA1 and BF recombination (HR) (5 identified, including S cycle-dependent man Ser1497, respectively been proposed as a n carboxy-terminal Rad	ceptibility proteins l ovarian cancers ar ression, transcriptio alization of Rad51 tr RCA2 cannot repair b). Numerous DNA c rer988, 1189, 1387, ner, including Auro (6-10). Cell cycle-de nechanism to switch 51 binding site (11)	BRCA1 and BRCA2 are fr id have roles in multiple n, ubiquitination, and ap o sites of double-strande DSBs through the Rad51 damage-induced phosph 1423, 1457, 1524, and 15 ra A and CDK2, can also pendent phosphorylation off HR as cells progress	equently mutated i processes related to optosis (1-4). BRCA ed breaks (DSBs) in l -dependent process orylation sites on B 542, and kinases act phosphorylate BRCA n of BRCA2 at Ser32 s beyond S-phase by	n cases of o DNA damage, 2 has been shown DNA, and cells s of homologous RCA1 have been ivated in a cell A1 at Ser308 and 291 by CDKs has y blocking the		
Background Re	ferences	1. Rahman, N. and Str 2. Gayther, S.A. et al. (3. Kerr, P. and Ashwor 4. Scully, R. and Living 5. Tutt, A. and Ashwor 6. Okada, S. and Ouch 7. Cortez, D. et al. (199 8. Xu, B. et al. (2002) (9. Ouchi, M. et al. (200 10. Ruffner, H. et al. (200 11. Esashi, F. et al. (200	ratton, M.R. (1998) <i>A</i> 1999) <i>Am J Hum Ge</i> th, A. (2001) <i>Curr B</i> jston, D.M. (2000) A rth, A. (2002) <i>Trends</i> ni, T. (2003) <i>J Biol Ch</i> 99) <i>Science</i> 286, 116 <i>Cancer Res</i> 62, 4588 04) <i>J Biol Chem</i> 279, 999) <i>Mol Cell Biol</i> 1 05) <i>Nature</i> 434, 598	Annu Rev Genet 32, 95-13 inet 65, 1021-9. iol 11, R668-76. lature 408, 429-32. 5 Mol Med 8, 571-6. em 278, 2015-20. 52-6. -91. 19643-8. 9, 4843-54. 3-604.	21.			

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key	W: Western Blotting IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)
Cross-Reactivity Key	H: Human Mk: Monkey
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