1/1/24, 3:12 PM Revision 1

Phospho-MERIT40 (Ser29) Antibody			Ce T E Orders:	Il Signaling CHNOLOGY* 877-616-CELL (2355) orders@cellsignal.com		
10				Support:	877-678-TECH (8324)	
121				Web:	info@cellsignal.com cellsignal.com	
#			3 Trask I	ane Danvers Mas	sachusetts 01923 USA	
For Research Use Only. Not for	Use in Diagnostic Proce	dures.				
Applications: Reactiv WB, IP H M	vity: Sensitivity: k Endogenous	MW (kDa): 40	Source: Rabbit	UniProt ID: #Q9NWV8	Entrez-Gene Id: 29086	
Product Usage	Application			Dilution		
Information	Western Blotting	Western Blotting			1:1000	
	Immunoprecipitation			1:50		
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	Phospho-MERIT40 (Ser29) Antibody recognizes endogenous levels of MERIT40 protein only when phosphorylated at Ser29.					
Source / Purification	Polyclonal antibodies are to residues surrounding affinity chromatography.	e produced by imm Ser29 of human M	unizing animals with ERIT40 protein. Antil	a synthetic phosphop podies are purified by	peptide corresponding protein A and peptide	
Background	The breast cancer susceptibility gene, BRCA1, codes for an E3 ubiquitin ligase that functions in the maintenance of genome stability through regulation of DNA damage response and DNA repair. BRCA1 forms at least three distinct complexes (BRCA1 A, B, and C) with other DNA repair proteins, and these interactions are vital for the regulation of BRCA1 function. The BRCA1-Rap80 complex (BRCA1 A complex), including Rap80, BRCC36, BRCC45, Abraxas, and MERIT40/NBA1, functions in G2/M phase checkpoint control (reviewed in 1,2). MERIT40/NBA1 localizes to sites of DNA damage and is required for the appropriate localization of BRCA1 in response to ionizing radiation, as well as maintenance of the BRCA1 A complex (3,4). Proteomics studies have identified Ser29 as a phosphorylated site on MERIT40/NBA1, and the significance of this phosphorylation is under investigation (5-9).					
Background References	 Ohta, T. et al. (2011) FEBS Lett 585, 2836-44. Huen, M.S. et al. (2010) Nat Rev Mol Cell Biol 11, 138-48. Wang, B. et al. (2009) Genes Dev 23, 729-39. Shao, G. et al. (2009) Genes Dev 23, 740-54. Moritz, A. et al. (2010) Sci Signal 3, ra64. Rigbolt, K.T. et al. (2011) Sci Signal 4, rs3. Iliuk, A.B. et al. (2010) Mol Cell Proteomics 9, 2162-72. Wu, F. et al. (2010) Mol Cell Proteomics 9, 1616-32. Mayya, V. et al. (2009) Sci Signal 2, ra46. 					
Species Reactivity	Species reactivity is deter	mined by testing in	n at least one approv	ed application (e.g., v	vestern 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 Kev	WB: Western Blotting IP	: Immunoprecipitat	ion			
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 					
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.					
Limited Uses						

Phospho-MERIT40 (Ser29) Antibody (#12110) Datasheet Without Images Cell Signaling Technology

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.