e at -20C	MERIT40 (D7Y5K) Rabbit mAb	T C			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
711		Support:	877-678-TECH (8324)		
127		Web:	info@cellsignal.com cellsignal.com		
	esearch Use Only. Not for Use in Diagnostic Procedures.	3 Trask Lane   Danvers   I	Massachusetts   01923   USA		

	<b>Reactivity:</b> H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 40	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NWV8	Entrez-Gene Id: 29086		
Product Usage Information	Ар	Application Dilution						
mormation	We	estern Blotting		1:1000				
	Im	munoprecipitation			1:200			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		MERIT40 (D7Y5K) Rabbit mAb recognizes endogenous levels of total MERIT40 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human MERIT40 protein.						
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 Referen	2. H 3. V 4. S 5. M 6. R 7. II 8. V	hta, T. et al. (2011) Juen, M.S. et al. (200 Jang, B. et al. (2009) hao, G. et al. (2009) Joritz, A. et al. (2010) igbolt, K.T. et al. (2010) Ju, F. et al. (2010) <i>M</i> Jayya, V. et al. (2009)	10) Nat Rev Mol ) Genes Dev 23, ) Genes Dev 23, )) Sci Signal 3, ra )11) Sci Signal 4, )) Mol Cell Protect 10 Cell Proteomia	Cell Biol 11, 138-48. 729-39. 740-54. 64. rs3. mics 9, 2162-72. cs 9, 1616-32.				
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		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>						

## MERIT40 (D7Y5K) Rabbit mAb (#12711) Datasheet Without Images Cell Signaling Technology

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