

## **MERIT40 Antibody**



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

<b>Applications:</b> W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 40	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q9NWV8	Entrez-Gene Id: 29086
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		MERIT40 Antibody recognizes endogenous levels of total MERIT40 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human MERIT40 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
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		1. Ohta, T. et al. (2011) FEBS Lett 585, 2836-44. 2. Huen, M.S. et al. (2010) Nat Rev Mol Cell Biol 11, 138-48. 3. Wang, B. et al. (2009) Genes Dev 23, 729-39. 4. Shao, G. et al. (2009) Genes Dev 23, 740-54. 5. Moritz, A. et al. (2010) Sci Signal 3, ra64. 6. Rigbolt, K.T. et al. (2011) Sci Signal 4, rs3. 7. Iliuk, A.B. et al. (2010) Mol Cell Proteomics 9, 2162-72. 8. Wu, F. et al. (2010) Mol Cell Proteomics 9, 1616-32. 9. Mayya, V. et al. (2009) Sci Signal 2, ra46.				
Species Reacti	vity	Species reactivity is de	etermined by testir	g in at least one approve	ed application (e.g.,	western blot).
Western Blot E	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** 

W: Western Blotting

**Cross-Reactivity Key** 

H: Human

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