## Phospho-Mre11 (Ser676) Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

info@cellsignal.com cellsignal.com Web:

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

<b>Applications:</b> W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 81	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P49959	Entrez-Gene Id: 4361
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		Phospho-Mre11 (Ser676) Antibody detects endogenous levels of Mre11 only when phosphorylated at Ser676.				
Species predicted to react based on 100% sequence homology		Monkey				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser676 of human Mre11. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		mutants were defective composed of Mre11, I processing and repair shortening, aberrant Mre11 are found in at ATM that cause ataxia Cellular consequences	ve in meiotic recom Rad50 and Nbs1 (M ing DNA double str meiosis and hypers axia-telangiectasia- -telangiectasia (A-T s of ATLD include ch response to DNA da	eens from the yeast <i>Sac</i> bination (1), is a central RN) (2,3). The MRN compand breaks. Defects leadensitivity to DNA damaglike disease (ATLD), with high including a predispositromosomal instability a mage. The MRN comple	part of a multisubu olex plays a critical d to genomic instab e (4). Hypomorphic phenotypes simila tion to malignancy nd defects in the in	nit nuclease role in sensing, ility, telomere mutations of r to mutations in in humans (5). tra-S phase and
		(CST) using PhosphoS Ser676 was discovered	can <sup>®</sup> , CST's LC-MS/l d using an ATM/ATF visit PhosphoSitePlu	cted to a site that was ic MS platform for modifica substrate antibody and us <sup>®</sup> , CST's modification s on.	ation site discovery. I was shown to be i	Phosphorylation at nduced by UV
Background References		<ol> <li>Ajimura, M. et al. (1993) Genetics 133, 51-66.</li> <li>D'Amours, D. and Jackson, S.P. (2002) Nat Rev Mol Cell Biol 3, 317-27.</li> <li>van den Bosch, M. et al. (2003) EMBO Rep 4, 844-9.</li> <li>Theunissen, J.W. et al. (2003) Mol Cell 12, 1511-23.</li> <li>Stewart, G.S. et al. (1999) Cell 99, 577-87.</li> <li>Carson, C.T. et al. (2003) EMBO J 22, 6610-20.</li> <li>Stokes, M.P. et al. (2007) Proc. Natl. Acad. Sci. USA 104, 19855-19860.</li> </ol>				
Species Reactivi	ty	Species reactivity is de	etermined by testin	g in at least one approve	ed 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** 

W: Western Blotting

**Cross-Reactivity Key** 

H: Human

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