Phospho-Mre11 (Ser676) Antibody TECHNOLOGY® Orders: 877-616-CELL (2355) orders@cellsignal.com



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

Applications: React WB H		MW (kDa): 81	Source: Rabbit	UniProt ID: #P49959	Entrez-Gene Id: 4361
Product Usage Information	Application Western Blotting			Dilution 1:1000	
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-Mre11 (Ser67 Ser676.	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				h a synthetic peptide col purified by protein A and	
Background	were defective in meioti Mre11, Rad50 and Nbs repairing DNA double s meiosis and hypersensi telangiectasia-like disea telangiectasia (A-T), inc ATLD include chromoso	c recombination (1) 1 (MRN) (2,3). The trand breaks. Defect tivity to DNA dama ase (ATLD), with ph cluding a predisposi omal instability and), is a central part of MRN complex play cts lead to genomic ge (4). Hypomorphic enotypes similar to tion to malignancy i defects in the intra-	Saccharomyces cerevisions f a multisubunit nuclease s a critical role in sensin- instability, telomere shor c mutations of Mre11 are mutations in ATM that ca n humans (5). Cellular c S phase and G2/M chec ATM checkpoint kinase a	e composed of g, processing and tening, aberrant e found in ataxia- ause ataxia- onsequences of kpoints in response
Background References	(CST) using PhosphoSo Ser676 was discovered treatment (7). Please vi www.phosphosite.org fo	can [®] , CST's LC-MS using an ATM/ATR sit PhosphoSitePlu or more information 93) <i>Genetics</i> 133, 5	S/MS platform for mo e substrate antibody s [®] , CST's modificati 51-66.	us identified at Cell Signa odification site discovery and was shown to be in ion site knowledgebase, ol 3, 317-27.	. Phosphorylation at duced by UV
	3. van den Bosch, M. et 4. Theunissen, J.W. et 5. Stewart, G.S. et al. (1 6. Carson, C.T. et al. (20 7. Stokes, M.P. et al. (20	al. (2003) EMBO F al. (2003) Mol Cell 2 1999) Cell 99, 577-8 203) EMBO J 22, 6	Rep 4, 844-9. L2, 1511-23. 37. 610-20.		
Species Reactivity	Species reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., we	estern blot).
Western Blot Buffer	IMPORTANT: For wester 0.1% Tween® 20 at 4°C			ed primary antibody in 59	% w/v BSA, 1X TBS,
Applications Key Cross-Reactivity Key	WB: Western Blotting				

3/23/24, 1:32 PM	 Phospho-Mre11 (Ser676) Antibody (#4859) Datasheet Without Images Cell Signaling Technology 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
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