Phospho-NuMA (Ser395) Antibody





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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 238	Source/Isotype: Rabbit	UniProt ID: #Q14980	Entrez-Gene Id: 4926		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		Phospho-NuMA (Ser395) Antibody detects endogenous levels of NuMA protein only when phosphorylated at Ser395.						
Source / Purifi	e / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser395 of human NuMA. Antibodies are purified using pro A and peptide affinity chromatography.							
Background		The nuclear mitotic apparatus protein (NuMA) is a coiled coil protein involved in the formation and maintenance of the mitotic spindle. NuMA plays a role in chromatin organization during interphase, which influences mammary epithelial differentiation (1,2). During apoptosis, carboxy-terminal cleavage of NuMA may amplify signaling in the cell death pathway (2). NuMA is phosphorylated at numerous sites, with phosphorylation at Ser395 occurring in an ATM/ATR-dependent manner in response to DNA damage (3,4). Phosphorylation at Thr2055 by CDK1 is required for spindle pole association of NuMA at the onset of mitosis. Dephosphorylation by PPP2CA leads to enhancement of NuMA at the cell cortex in anaphase and proper cell-cycle progression (5,6). Phospho-NuMA (Ser395) Antibody is directed at a site that was identified at Cell Signaling Technology (CST) using PhosphoScan [®] , CST's LC-MS/MS platform for modification site discovery. Phosphorylation at Ser395 was discovered using an ATM/ATR substrate antibody and was shown to be induced by UV treatment. Please visit PhosphoSitePlus [®] , CST's modification site knowledgebase, at www.phosphosite.org for more information.						
Background R	eferences	1. Abad, P.C. et al. (2007) Mol Biol Cell 18, 348-61. 2. Lin, H.H. et al. (2007) J Biomed Sci 14, 681-94. 3. Stokes, M.P. et al. (2007) Proc Natl Acad Sci USA 104, 19855-60. 4. Matsuoka, S. et al. (2007) Science 316, 1160-6. 5. Kotak, S. et al. (2013) EMBO J 32, 2517-29. 6. Seldin, L. et al. (2013) Mol Biol Cell 24, 3651-62.						
Species Reacti	vity	Species reactivity is de	etermined by testin	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 K	ey	W: Western Blotting						
Cross-Reactivi	ty Key	H: Human						
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
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