

NuMA Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 238	Source/Isotype: Rabbit	UniProt ID: #Q14980	Entrez-Gene Id: 4926
Product Usage Information		Application Western Blotting Immunofluorescence	· (Immunocytochen	nistry)		Dilution 1:1000 1:100
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		NuMA Antibody detects endogenous levels of total NuMA protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human NuMA.				
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).				
Background References		 Abad, P.C. et al. (2007) Mol Biol Cell 18, 348-61. Lin, H.H. et al. (2007) J Biomed Sci 14, 681-94. Stokes, M.P. et al. (2007) Proc Natl Acad Sci USA 104, 19855-60. Matsuoka, S. et al. (2007) Science 316, 1160-6. Kotak, S. et al. (2013) EMBO J 32, 2517-29. Seldin, L. et al. (2013) Mol Biol Cell 24, 3651-62. 				
Species Reactivi	ity	Species reactivity is d	etermined by testir	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				

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 IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human Mk: Monkey

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