

14951

Phospho-NuMA (Thr2055) Antibody



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

Reactivity: H	Sensitivity: Endogenous	MW (kDa): 238	Source/Isotype: Rabbit	UniProt ID: #Q14980	Entrez-Gene Id: 4926
2	Application Western Blotting			Dilution 1:1000	
	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.				
sitivity	Phospho-NuMA (Thr2055) Antibody recognizes endogenous levels of NuMA protein only when phosphorylated at Thr2055.				
cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr2055 of human NuMA protein. Antibodies are purified by protein A and peptide affinity chromatography.				
	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).				
eferences	 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. 				
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Species Reactivity

Species reactivity is determined by testing in at least one approved 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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