#8967 Store at -20C

NuMA (D49H4) Rabbit mAb



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Applications: WB, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 238	Source/Isotype: Rabbit IgG	UniProt ID: #Q14980	Entrez-Gene Id: 4926
Product Usage Information	We	plication estern Blotting munofluorescence (Immunocytochen	nistry)		Dilution 1:1000 1:50
Storage	Sup	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensit	t ivity NuN	NuMA (D49H4) Rabbit mAb detects endogenous levels of total NuMA protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human NuMA protein.				
Background	maii influ may pho Pho mito	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 Refer	2. Li 3. S 4. M 5. K	 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 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

WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

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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