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Patents

cdc2 (POH1) Mouse mAb



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Applications: WB, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 34	Source/Isotype: Mouse IgG2a	UniProt ID: #P06493	Entrez-Gene Id: 983
Product Usage Information	ĮΑ	pplication		Dilution		
	W	estern Blotting		1:1000		
	Im	munoprecipitation		1:100		
	Im	munofluorescence (Immunocytochen	1:200 - 1:800		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.				
Specificity / Sensi		cdc2 (POH1) Mouse mAb detects endogenous levels of total cdc2 protein. The antibody does not cross-react with other cdks.				
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a recombinant human cdc2 fusion protein. This antibody recognizes residues near the carboxy-terminus of human cdc2.				
Background	sev reg at T out	The entry of eukaryotic cells into mitosis is regulated by cdc2 kinase activation, a process controlled at several steps including cyclin binding and phosphorylation of cdc2 at Thr161 (1). However, the critical regulatory step in activating cdc2 during progression into mitosis appears to be dephosphorylation of cdc2 at Thr14 and Tyr15 (2). Phosphorylation at Thr14 and Tyr15, resulting in inhibition of cdc2, can be carried out by Wee1 and Myt1 protein kinases (3,4). The cdc25 phosphatase may be responsible for removal of phosphates at Thr14 and Tyr15 and subsequent activation of cdc2 (1,5).				
Background Refer	2. N 3. N 4. V	 Atherton-Fessler, S. et al. (1994) Mol Biol Cell 5, 989-1001. Norbury, C. et al. (1991) EMBO J 10, 3321-9. McGowan, C.H. and Russell, P. (1993) EMBO J 12, 75-85. Wells, N.J. et al. (1999) J Cell Sci 112 (Pt 19), 3361-71. Hunter, T. (1995) Cell 80, 225-36. 				

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IP: Immunoprecipitation 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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