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cdc2 (POH1) Mouse mAb

Applications: W, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 34	Source/Isotype: Mouse IgG2a	UniProt ID: #P06493	Entrez-Gene Id: 983	
Information West		Application Western Blotting Immunoprecipitation Immunofluorescence	/estern Blotting			Dilution 1:1000 1:100 1:200 - 1:800	
Storage		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.					
		For a carrier free (BSA and azide free) version of this product see product #99601.					
Specificity/Sen	y/Sensitivity cdc2 (POH1) Mouse mAb detects endogenous levels of total cdc2 protein. The antibody does not cro react with other cdks.					dy does not cross-	
Source / Purific	ation	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		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 Re	eferences	1. Atherton-Fessler, S. et al. (1994) <i>Mol Biol Cell</i> 5, 989-1001. 2. Norbury, C. et al. (1991) <i>EMBO J</i> 10, 3321-9. 3. McGowan, C.H. and Russell, P. (1993) <i>EMBO J</i> 12, 75-85. 4. Wells, N.J. et al. (1999) <i>J Cell Sci</i> 112 (Pt 19), 3361-71. 5. Hunter, T. (1995) <i>Cell</i> 80, 225-36.					
Species Reactiv	/ity	Species reactivity is de	termined by testing	g in at least one approve	d application (e.g.,	western blot).	
Western Blot B	uffer	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 Ke	ey	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivit	y Key	H: Human Mk: Monkey					
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