## 4539

**Limited Uses** 

## Phospho-cdc2 (Tyr15) (10A11) Rabbit mAb

force or effect.



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

<b>Applications:</b> W, IP, IF-IC, FC-FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 34	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P06493	Entrez-Gene Id: 983
vv, 11, 11 -1C, 1 C-11	TT WITK WIK	Lildogerious	<del></del>	Nabbit	#1 00455	
Product Usage		Application			Dilution	
Information		Western Blotting			1:1000	
		Immunoprecipitation			1:	:100
		Immunofluorescence	(Immunocytochem	istry)	1:	:50 - 1:100
		Flow Cytometry (Fixed	/Permeabilized)		1:	:50 - 1:200
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 #77897.				
Specificity/Sensitivity		Phospho-cdc2 (Tyr15) (10A11) Rabbit mAb detects endogenous levels of cdc2 protein only when phosphorylated at tyrosine 15. Based on sequence similarity, the antibody may cross-react with CDK2 and CDK3.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr15 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 References		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	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary ant TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				n 5% w/v BSA, 1X
Applications Key		<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IF-IC:</b> Immunofluorescence (Immunocytoche <b>FP:</b> Flow Cytometry (Fixed/Permeabilized)				ytochemistry) <b>FC</b> -
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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