4539 Store at -20C

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



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Applications: WB, IP, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 34	Source/Isotype: Rabbit	UniProt ID: #P06493	Entrez-Gene Id: 983
Product Usage	Ap	Application			Dilution	
Information	We	stern Blotting		1:1000		
	lmı	nunoprecipitation			1	:100
	lmı	Immunofluorescence (Immunocytochemistry)			1:50 - 1:100	
	Flo	w Cytometry (Fixed	/Permeabilized)		1	::50 - 1:200
Storage	Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less that 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #77897.				
Specificity / Sensit	pho	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	sevo regu 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).				
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 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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

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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