#28439 Store at -20C

cdc2 (E1Z6R) Rabbit mAb



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Applications: WB, W-S, IP	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 34	Source/Isotype: Rabbit IgG	UniProt ID: #P06493	Entrez-Gene Id: 983	
Product Usage Information	Application			Dilution			
	Western Blotting			1:1000			
	Sim	Simple Western™			1:10 - 1:50		
	Imn	nunoprecipitation			1:50		
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 / Sens	sitivity Cdc2	Cdc2 (E1Z6R) Rabbit mAb recognizes endogenous levels of total cdc2 protein.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp289 of human cdc2 protein.					
Background	seve regu at Th out b	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 Ref	2. No 3. Mo 4. W	 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

 $\textbf{WB:} \ \text{Western Blotting W-S: Simple Western}^{\intercal} \ \textbf{IP:} \ \text{Immunoprecipitation}$

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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