2546 Store at -20C

CDK2 (78B2) Rabbit mAb



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Applications: WB, W-S, IP, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 33	Source/Isotype: Rabbit	UniProt ID: #P24941	Entrez-Gene Id: 1017	
Product Usage Information	Ap	Application				Dilution	
	We	Western Blotting				1:1000	
	Sir	Simple Western™				1:10 - 1:50	
	lm	munoprecipitation		1:50			
	Flo	ow Cytometry (Fixed	d/Permeabilized)	1:50 - 1:200			
Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						erol and less than	
	For	For a carrier free (BSA and azide free) version of this product see product #30875.					
Specificity / Sensitivity		CDK2 (78B2) Rabbit mAb detects endogenous levels of total CDK2 protein. The antibody does not cross-react with other CDKs.					
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro241 of human CDK2 protein.					
Background	p34 and con con Thr is ir CD	Cyclin-dependent kinase 2 (p33CDK2) is an important component of the cell cycle machinery. Like p34cdc2, kinase activity is regulated by phosphorylation state as well as association with a cyclin subunit and a CDK inhibitor. Inhibitory phosphorylation occurs on Thr14 and Tyr15 (1). Inhibition of CDK2-cyclin complexes can also be attributed to association with p27 Kip1 and p21 Waf1/Cip1 (2). Activation of CDK2 complexes requires dephosphorylation of Thr14 and Tyr15 by cdc25 phosphatase and phosphorylation of Thr160 (3), which is mediated by CAK, a complex of CDK7 and cyclin H (4). CDK2/cyclin E kinase activity is important for the G1 to S transition and phosphorylation of the Rb protein. During S-phase, active CDK2/cyclin A complexes predominate and phosphorylate E2F and the active CDK2 complex persists in the nucleus throughout G2 (5).					
Background Refe	2. P 3. G 4. F	 Morgan, D.O. (1995) Nature 374, 131-4. Poon, R.Y. et al. (1996) J Biol Chem 271, 13283-91. Gu, Y. et al. (1992) EMBO J 11, 3995-4005. Fesquet, D. et al. (1993) EMBO J 12, 3111-21. Morgan, D.O. (1997) Annu Rev Cell Dev Biol 13, 261-91. 					

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 W-S: Simple Western™ IP: Immunoprecipitation

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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Limited Uses

CDK2 (78B2) Rabbit mAb (#2546) Datasheet Without Images Cell Signaling Technology

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