CDK4 (D9G3E) Rabbit mAb (PE Conjugate)



Orders:	877-616-CELL (2355 orders@cellsignal.com
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: FC-FP	Reactivity: H Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P11802	Entrez-Gene Id: 1019	
Product Usage Information		ApplicationDiluFlow Cytometry (Fixed/Permeabilized)1:50		Dilution 1:50		
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliqu antibody. Protect from light. Do not freeze.				
Specificity/Sensit	ivity	CDK4 (D9G3E) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total CDK4 protein. In COS cells, this antibody recognizes a 40 kDa background band of unknown origin. This antibody does not cross-react with CDK1, 2, or 6.				
Source / Purificat	tion	Monoclonal antibody is p residues near the carbox	produced by immunizing of terminus of human CDI	animals with a synth K4 protein.	etic peptide corresponding to	
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated CDK4 (D9G3E) Rabbit mAb #12790.				
Background		Cyclin-dependent kinase activity is regulated by T-loop phosphorylation (Thr172 in the case of CDK4), by the abundance of their cyclin partners, and by association with CDK inhibitors of the Cip/Kip or INK family of proteins (1). The inactive ternary complex of CDK4/cyclin D and p27 Kip1/Cip1 requires extracellular mitogenic stimuli for the release and degradation of p27, which affects progression through the restriction point and pRb-dependent entry into S-phase (2). The active complex of CDK4/cyclin D targets the retinoblastoma protein for phosphorylation, allowing the release of E2F transcription factors that activate G1/S-phase gene expression (3). In HeLa cells, upon UV irradiation, upregulation of p16 INK4A association with CDK4/cyclin D3 leads to a G2 delay, implicating CDK4/cyclin D3 activity in progression through the G2-phase of the cell cycle (4).				
Background Refe	rences	1. Hirai, H. et al. (1995) <i>Mol Cell Biol</i> 15, 2672-81. 2. Sherr, C.J. (1996) <i>Science</i> 274, 1672-7. 3. Lukas, J. et al. (1996) <i>Mol Cell Biol</i> 16, 6917-25. 4. Gabrielli, B.G. et al. (1999) <i>J Biol Chem</i> 274, 13961-9.				
Species Reactivit	у	Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Applications Key FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivity	Key	H: Human Mk: Monkey				
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