Revision 1			
Phospho-Cyclin D1 (Thr286) (D29B3) XP [®] Rabbit mAb (PE Conjugate)			ECHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com
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For Research Use Only. Not for	Use in Diagnostic Procedures.		
Applications: Reacti FC-FP H M		UniProt ID: #P24385	Entrez-Gene Id: 595
Product Usage	Application		Dilution
Information	Flow Cytometry (Fixed/Permeabilized)		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 aliquot the antibodies. Protect from light. Do not freeze.		
Specificity / Sensitivity	Phospho-Cyclin D1 (Thr286) (D29B3) XP [®] Rabbit mAb (PE Conjugate) detects endogenous levels of cyclin D1 only when phosphorylated at Thr286. This antibody does not cross-react with other cyclin D family members.		
Species predicted to react based on 100% sequence homology:	Monkey		
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr286 of cyclin D1 protein.		
Product Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-Cyclin D1 (Thr286) (D29B3) XP [®] Rabbit mAb #3300.		
Background	Activity of the cyclin-dependent kinases CDK4 and CDK6 is regulated by T-loop phosphorylation, by the abundance of their cyclin partners (the D-type cyclins), and by association with CDK inhibitors of the Cip/Kip or INK family of proteins (1). The inactive ternary complex of cyclin D/CDK4 and p27 Kip1 requires extracellular mitogenic stimuli for the release and degradation of p27 concomitant with a rise in cyclin D levels to affect progression through the restriction point and Rb-dependent entry into S-phase (2). The active complex of cyclin D/CDK4 targets the retinoblastoma protein for phosphorylation, allowing the release of E2F transcription factors that activate G1/S-phase gene expression (3). Levels of cyclin D protein drop upon withdrawal of growth factors through downregulation of protein expression and phosphorylation-dependent degradation (4).		
Background References	 Hirai, H. et al. (1995) Mol Cell Biol 15, 2672-81. Sherr, C.J. (1996) Science 274, 1672-7. Lukas, J. et al. (1996) Mol Cell Biol 16, 6917-25. Diehl, J.A. et al. (1997) Genes Dev 11, 957-72. 		
Species Reactivity	Species reactivity is determined by testing in at	t least one approved application (e.g.	, western blot).
Applications Key	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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information.

Limited Uses

Phospho-Cyclin D1 (Thr286) (D29B3) XP® Rabbit mAb (PE Conjugate) (#8497) Datasheet Without Images ...

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