Cyclin D2 (D52F9) Rabbit mAb



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Applications: W, W-S, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 31	Source/Isotype: Rabbit IgG	UniProt ID: #P30279	Entrez-Gene Id: 894
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation			Dilution 1:1000 1:50 - 1:250 1:100	
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/Sensitivity		Cyclin D2 (D52F9) Rabbit mAb detects endogenous levels of total cyclin D2 protein. It does not cross-react with other family members.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of cyclin D2.				
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		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. Diehl, J.A. et al. (1997) <i>Genes Dev</i> 11, 957-72.				
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		W: Western Blotting W-S: Simple Western [™] IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
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