

Cyclin D2 (D52F9) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 31	Source/Isotype: Rabbit IgG	UniProt ID: #P30279	Entrez-Gene Id: 894	
Product Usage Information	Ap	plication			Dilution		
	We	estern Blotting		1:1000			
	lmı	munoprecipitation			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 / Sensitiv		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	abu Cip/ extr leve activ rele prot	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 Referer	2. S 3. L	 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 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 IP: 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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