## Cyclin D1 (92G2) Rabbit mAb





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Applications: W, IHC-P	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 36	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P24385	Entrez-Gene Id: 595		
Product Usage Information	2	<b>Application</b> Western Blotting Immunohistochemistry (Paraffin)		1:	<b>Dilution</b> 1:1000 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Ser	nsitivity	Cyclin D1 (92G2) Rabbit mAb detects endogenous levels of total cyclin D1 protein.						
Source / Purifi	<b>e / Purification</b> Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding carboxy-terminus of human cyclin D1.							
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 R	eferences	1. Hirai, H. et al. (1995 2. Sherr, C.J. (1996) <i>Sc</i> 3. Lukas, J. et al. (1996 4. Diehl, J.A. et al. (199	<i>ience</i> 274, 1672-7. 6) <i>Mol Cell Biol</i> 16, 6	917-25.				
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot I	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 <b>K</b>	ley	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat						
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