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## Phospho-Rb (Ser608) (D10F2) Rabbit mAb



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Applications: W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 110	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P06400	Entrez-Gene Id: 5925		
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<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/Sen	sitivity	Phospho-Rb (Ser608) (D10F2) Rabbit mAb recognizes endogenous levels of Rb protein only when phosphorylated at Ser608.						
Species predict based on 100% homology	ed to react sequence	Monkey						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser608 of human Rb protein.						
Background		The retinoblastoma tumor suppressor protein Rb regulates cell proliferation by controlling progression through the restriction point within the G1-phase of the cell cycle (1). Rb has three functionally distinct binding domains and interacts with critical regulatory proteins including the E2F family of transcription factors, c-Abl tyrosine kinase, and proteins with a conserved LXCXE motif (2-4). Cell cycle-dependent phosphorylation by a CDK inhibits Rb target binding and allows cell cycle progression (5). Rb inactivation and subsequent cell cycle progression likely requires an initial phosphorylation by cyclin D-CDK4/6 followed by cyclin E-CDK2 phosphorylation (6). Specificity of different CDK/cyclin complexes has been observed <i>in vitro</i> (6-8) and cyclin D1 is required for Ser780 phosphorylation <i>in vivo</i> (9).						
Background Re	ferences	<ol> <li>Sherr, C.J. (1996) Science 274, 1672-7.</li> <li>Nevins, J.R. (1992) Science 258, 424-9.</li> <li>Welch, P.J. and Wang, J.Y. (1993) Cell 75, 779-90.</li> <li>Hu, Q.J. et al. (1990) EMBO J 9, 1147-55.</li> <li>Knudsen, E.S. and Wang, J.Y. (1997) Mol Cell Biol 17, 5771-83.</li> <li>Lundberg, A.S. and Weinberg, R.A. (1998) Mol Cell Biol 18, 753-61.</li> <li>Connell-Crowley, L. et al. (1997) Mol Biol Cell 8, 287-301.</li> <li>Kitagawa, M. et al. (1996) EMBO J 15, 7060-9.</li> <li>Geng, Y. et al. (2001) Proc Natl Acad Sci USA 98, 194-9.</li> </ol>						
Species Reactiv	vity	Species reactivity is def	termined by testin	g in at least one approve	d application (e.g.,	western blot).		
Western Blot B	uffer	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 Ke	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	у Кеу	H: Human						
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