e at -20C	Phospho-Rb (Ser795) Antibody		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
)1		Support:	877-678-TECH (8324)	
#9301		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA	

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 110	Source: Rabbit	UniProt ID: #P06400	Entrez-Gene Id: 5925			
Product Usage Information		pplication /estern Blotting nmunoprecipitation			Dilution 1:1000 1:50				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.							
Specificity / Sensitivity		Phospho-Rb (Ser795) Antibody detects endogenous levels of Rb only when phosphorylated at Ser795. The antibody does not cross-react with Rb phosphorylated at other sites.							
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser795 of human Rb. Antibodies are purified by protein A and peptide affinity chromatography.							
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 Refe	2. 3. 4. 5. 6. 7. 8.	Sherr, C.J. (1996) <i>Scie</i> Nevins, J.R. (1992) <i>Sc</i> Welch, P.J. and Wang Hu, Q.J. et al. (1990) <i>I</i> Knudsen, E.S. and Wa Lundberg, A.S. and W Connell-Crowley, L. et Kitagawa, M. et al. (19 Geng, Y. et al. (2001)	cience 258, 424-9. , J.Y. (1993) Cell 7 EMBO J 9, 1147-5 ang, J.Y. (1997) Ma einberg, R.A. (199 al. (1997) Mol Bio 196) EMBO J 15, 7	5, 779-90. 5. bl Cell Biol 17, 5771 8) Mol Cell Biol 18, l Cell 8, 287-301. 060-9.					
Species Reactivity	y Spe	ecies reactivity is deter	mined by testing in	n at least one appro	ved application (e.g., we	stern 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	WE	B: Western Blotting IP	: Immunoprecipitat	tion					
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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Phospho-Rb (Ser795) Antibody (#9301) Datasheet Without Images Cell Signaling Technology

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