e at -20C	Phospho-Rb (Ser608) Antibody		Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
31		Support:	877-678-TECH (8324)	
#2181		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane   Danvers   M	assachusetts   01923   USA	

For Becoareb Lice Only	Not for Use in	Diagnostic Broodures
For Research Use Oni	y. Not for Use in	Diagnostic Procedures.

Applications: WB, IP	<b>Reactivity:</b> H R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 110	Source: Rabbit	<b>UniProt ID:</b> #P06400	Entrez-Gene Id: 5925		
Product Usage Information		plication estern Blotting			<b>Dilution</b> 1:1000			
Storage	Sup			5), 150 mM NaCl, 10	1:100 00 μg/ml BSA and 50% (	glycerol. Store at –		
Specificity / Sensitivity		20°C. Do not aliquot the antibody. Phospho-Rb (Ser608) Antibody detects endogenous levels of Rb only when phosphorylated at serine 608.						
Species predicted to react based on 100% sequence homology:		1						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser608 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. N 3. W 4. H 5. K 6. L 7. C 8. K	herr, C.J. (1996) Sc levins, J.R. (1992) S Velch, P.J. and Wang lu, Q.J. et al. (1990) Inudsen, E.S. and W undberg, A.S. and V connell-Crowley, L. e itagawa, M. et al. (1 Geng, Y. et al. (2001)	Science 258, 424-9 g, J.Y. (1993) Cell EMBO J 9, 1147-5 /ang, J.Y. (1997) M Veinberg, R.A. (199 et al. (1997) Mol Bio 996) EMBO J 15,	75, 779-90. 55. 10 <i>l Cell Biol</i> 17, 5771 98) <i>Mol Cell Biol</i> 18, 10 <i>Cell</i> 8, 287-301. 7060-9.				
Species Reactivit	<b>y</b> Spec	ies reactivity is dete	ermined by testing	n at least one appro	oved application (e.g., we	estern 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						

Trademarks and Patents

Limited Uses

Phospho-Rb (Ser608) Antibody (#2181) Datasheet Without Images Cell Signaling Technology

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