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## Phospho-Rb (Ser780) (C84F6) Rabbit mAb



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

<b>Applications:</b> WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 110	Source/Isotype: Rabbit IgG	UniProt ID: #P06400	Entrez-Gene Id 5925	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting		1:1000			
	Imr	nunoprecipitation		1:100			
Storage				7.5), 150 mM NaCl, 100 $\mu g/ml$ BSA, 50% glycerol and less than not aliquot the antibody.			
Specificity / Sensitiv		Phospho-Rb (Ser780) (C84F6) Rabbit mAb detects endogenous levels of total Rb protein only when phosphorylated at Ser780.					
Species predicted to react based on 1009 sequence homology	%						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to resudues surrounding Ser780 of human Rb protein.					
Background	thro bind facte pho and follo	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 Refere	2. N 3. W 4. H 5. K 6. Lı 7. C 8. K	evins, J.R. (1992) S /elch, P.J. and Wang u, Q.J. et al. (1990) nudsen, E.S. and W undberg, A.S. and V onnell-Crowley, L. e itagawa, M. et al. (1	Science 274, 1672-7. 2) Science 258, 424-9. Ang, J.Y. (1993) Cell 75, 779-90. 90) EMBO J 9, 1147-55. d Wang, J.Y. (1997) Mol Cell Biol 17, 5771-83. d Weinberg, R.A. (1998) Mol Cell Biol 18, 753-61. L. et al. (1997) Mol Biol Cell 8, 287-301. l. (1996) EMBO J 15, 7060-9. 101) Proc Natl Acad Sci USA 98, 194-9.				

**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

1/1/24, 7:37 AM

Phospho-Rb (Ser780) (C84F6) Rabbit mAb (#3590) Datasheet Without Images Cell Signaling Technology

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