Store at -20C

Phospho-Rb (Ser780) (D59B7) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit IgG	UniProt ID: #P06400	Entrez-Gene Id: 5925	
Product Usage Information	Application			Dilution			
	We	Western Blotting			1:1000		
	lm	munoprecipitation		1:200			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.					
Specificity / Sensit		Phospho-Rb (Ser780) (D59B7) Rabbit mAb recognizes endogenous levels of Rb protein only when phosphorylated at Ser780.					
Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding residues surrounding Ser780 of human Rb protein.					esponding to		
Background	thro bino fact 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		Science 258, 424- g, J.Y. (1993) Cel EMBO J 9, 1147 /ang, J.Y. (1997) Veinberg, R.A. (1 et al. (1997) Mol E 996) EMBO J 15	9. I 75, 779-90. -55. Mol Cell Biol 17, 5771-8 998) Mol Cell Biol 18, 79 Biol Cell 8, 287-301. , 7060-9.				

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

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