3301

Phospho-Rb (Ser795) Antibody



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

Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit	UniProt ID: #P06400	Entrez-Gene Id: 5925
Product Usage Information	e	Application Western Blotting Immunoprecipitation			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 References		 Sherr, C.J. (1996) Science 274, 1672-7. Nevins, J.R. (1992) Science 258, 424-9. Welch, P.J. and Wang, J.Y. (1993) Cell 75, 779-90. Hu, Q.J. et al. (1990) EMBO J 9, 1147-55. Knudsen, E.S. and Wang, J.Y. (1997) Mol Cell Biol 17, 5771-83. Lundberg, A.S. and Weinberg, R.A. (1998) Mol Cell Biol 18, 753-61. Connell-Crowley, L. et al. (1997) Mol Biol Cell 8, 287-301. Kitagawa, M. et al. (1996) EMBO J 15, 7060-9. Geng, Y. et al. (2001) Proc Natl Acad Sci USA 98, 194-9. 				
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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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human Mk: Monkey

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