

:8516

Phospho-Rb (Ser807/811) (D20B12) XP[®] Rabbit mAb



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

Applications: W, W-S, IP, IHC-P, IF-F, IF-IC, FC-FP	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	
		Western Blotting			1:1000	
		Simple Western™			1:10	
		Immunoprecipitation			1:20	0
		Immunohistochemist	ry (Paraffin)		1:20	0 - 1:800
		Immunofluorescence	(Frozen)		1:40	0 - 1:800
		Immunofluorescence (Immunocytochemistry)			1:800 - 1:3200	
		Flow Cytometry (Fixed/Permeabilized)			1:200 - 1:800	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier-free (BSA and azide free) version of this product see product #41359.				
Specificity/Sensitivity		Phospho-Rb (Ser807/811) (D20B12) XP [®] Rabbit mAb recognizes endogenous levels of Rb protein only when phosphorylated at Ser807, Ser811, or at both sites. This antibody does not cross-react with Rb phosphorylated at Ser608.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser807/811 of human Rb protein.				
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

Cross-Reactivity Key

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 W-S: Simple Western™ IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

H: Human M: Mouse R: Rat Mk: Monkey

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