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Phospho-Rb (Ser807/811) (D20B12) XP[®] Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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Applications:ReactivityIF-IC, FC-FPH M R Mk	: Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P06400	Entrez-Gene Id: 5925		
Product Usage Information	Application Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)			Dilution 1:1600 1:50		
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity/Sensitivity	Phospho-Rb (Ser807/811) (D20B12) XP [®] Rabbit mAb (Alexa Fluor [®] 488 Conjugate) 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.					
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct flow cytometric and immunofluorescent analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-Rb (Ser807/811) (D20B12) XP [®] Rabbit mAb #8516.					
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. 					
Species Reactivity	Species reactivity is dete	rmined by testing in at le	east one approved ap	plication (e.g., western blot).		
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey					
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