Phospho-Rb (Ser807/811) (D20B12) XP[®] Rabbit mAb (Alexa Fluor[®] 555 Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.						
	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P06400	Entrez-Gene Id: 5925	
Product Usage Information	Ар	plication			Dilution	
	Imr	nunofluorescence	(Immunocytochemistry)		1:100	
	Flo	w Cytometry (Fixe	ed/Permeabilized)		1:50	
Storage			7.2), less than 0.1% sodium a light. Do not freeze.	zide and 2 mg/ml BSA. Store at 4°	C. Do not aliquot the	
Specificity / Sensitiv	ende	ogenous levels of		Ab (Alexa Fluor [®] 555 Conjugate) r orylated at Ser807, Ser811, or at b ed at Ser608.		
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser807/811 of human Rb protein.				
Product Description	hous to ex	This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 555 fluorescent dye and tested inhouse for direct flow cytometry and immunofluorescent analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-Rb (Ser807/811) (D20B12) XP [®] Rabbit mAb #8516.				
Background	thro bind facto 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 Referen	1. Sherr, C.J. (1996) <i>Science</i> 274, 1672-7. 2. Nevins, J.R. (1992) <i>Science</i> 258, 424-9.					

- 2. Nevins, J.R. (1992) Science 258, 424-9.
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Species Reactivity

Species reactivity is determined by testing in at least one approved application (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 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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