

#8974

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Web:

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

Applications: FC-FP	Reactivity:Sensitivity:Source/Isotype:H M R MkEndogenousRabbit IgG	UniProt ID:Entrez-Gene Id:#P064005925
Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide a antibody. Protect from light. Do not freeze.	and 2 mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitiv	rity Phospho-Rb (Ser807/811) (D20B12) XP <sup>®</sup> Rabbit mAb (4 endogenous levels of Rb protein only when phosphoryla antibody does not cross-react with Rb phosphorylated at	ted at Ser807, Ser811, or at both sites. This
Source / Purification	Monoclonal antibody is produced by immunizing animals residues surrounding Ser807/811 of human Rb protein.	with a synthetic peptide corresponding to
Product Descriptior	This Cell Signaling Technology antibody is conjugated to house for direct flow cytometric analysis in human cells. species cross-reactivity as the unconjugated Phospho-R	The antibody is expected to exhibit the same
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 Refere	<ol> <li>Sherr, C.J. (1996) <i>Science</i> 274, 1672-7.</li> <li>Nevins, J.R. (1992) <i>Science</i> 258, 424-9.</li> <li>Welch, P.J. and Wang, J.Y. (1993) <i>Cell</i> 75, 779-90.</li> <li>Hu, Q.J. et al. (1990) <i>EMBO J</i> 9, 1147-55.</li> <li>Knudsen, E.S. and Wang, J.Y. (1997) <i>Mol Cell Biol</i> 17.</li> <li>Lundberg, A.S. and Weinberg, R.A. (1998) <i>Mol Cell Bi</i></li> <li>Connell-Crowley, L. et al. (1997) <i>Mol Biol Cell</i> 8, 287-38.</li> <li>Kitagawa, M. et al. (1996) <i>EMBO J</i> 15, 7060-9.</li> <li>Geng, Y. et al. (2001) <i>Proc Natl Acad Sci USA</i> 98, 194</li> </ol>	o/ 18, 753-61. 301.
Species Reactivity	Species reactivity is determined by testing in at least one	approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Ke	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>	-
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Phospho-Rb (Ser807/811) (D20B12) XP® Rabbit mAb (Alexa Fluor® 647 Conjugate) (#8974) Datasheet ...

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