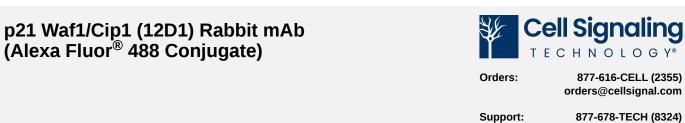
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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Reactive IF-IC, FC-FP H M		UniProt ID:Entrez-Gene Id:#P389361026
Product Usage	Application	Dilution
Information	Immunofluorescence (Immunocytochemistry)	1:400
	Flow Cytometry (Fixed/Permeabilized)	1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide a antibody. Protect from light. Do not freeze.	nd 2 mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	p21 Waf1/Cip1 (12D1) Rabbit mAb (Alexa Fluor <sup>®</sup> 488 Conjugate) detects endogenous levels of total p21 protein. The antibody does not cross-react with other CDK inhibitors.	
Species predicted to react based on 100% sequence homology:	Dog	
Source / Purification	Monoclonal antibody is produced by immunizing animals residues near the carboxy terminus of human p21.	with a synthetic peptide corresponding to
Product Description	This Cell Signaling Technology antibody is conjugated to house for direct flow cytometry and immunofluorescent ar to exhibit the same species cross-reactivity as the unconj	nalysis in monkey cells. The antibody is expected
Background	The tumor suppressor protein p21 Waf1/Cip1 acts as an i stoichiometric relationships forming heterotrimeric comple association with CDK2 complexes, it serves to inhibit kina (1). However, p21 may also enhance assembly and activi (2). The carboxy-terminal region of p21 is sufficient to bin polymerase, and may coordinate DNA replication with cel during cell cycle stages when cdc2/cyclin B or CDK2/cycl upregulates p21 transcription via a p53-responsive element through ubiquitination and proteasomal degradation (5).	exes with cyclins and cyclin-dependent kinases. In ase activity and block progression through G1/S ity in complexes of CDK4 or CDK6 and cyclin D d and inhibit PCNA, a subunit of DNA Il cycle progression (3). Upon UV damage or in A are active, p53 is phosphorylated and
Background References	<ol> <li>Pestell, R.G. et al. (1999) <i>Endocrine Rev.</i> 20, 501-34.</li> <li>Cheng, J. et al. (1999) <i>EMBO J.</i> 18, 1571-83.</li> <li>Flores-Rozas, H. et al. (1994) <i>Proc. Natl. Acad. Sci. US</i></li> <li>Wang, Y. and Prives, C. (1995) <i>Nature</i> 376, 88-91.</li> <li>Sheaff, R.J. et al. (2000) <i>Cell</i> 5, 403-10.</li> </ol>	5A 91, 8655-9.
Species Reactivity	Species reactivity is determined by testing in at least one a	approved application (e.g., western blot).
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry) FC-F	P: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	<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>	-
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling This product is provided under an intellectual property lice transfer of this product is conditioned on the buyer using th	nse from Life Technologies Corporation. The

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p21 Waf1/Cip1 (12D1) Rabbit mAb (Alexa Fluor® 488 Conjugate) (#5487) Datasheet Without Images Cell S...

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