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## p21 Waf1/Cip1 (DCS60) Mouse



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: WB, IHC-P	Reactivity: H Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 21	Source/Isotype: Mouse IgG2a	UniProt ID: #P38936	Entrez-Gene Id: 1026	
Product Usage Information	Ap	Application			Dilution		
	We	Western Blotting				1:2000	
	lmı	Immunohistochemistry (Paraffin)			1:50		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.					
Specificity / Sensitivity p21 Waf1/Cip1 (DCS60) Mouse mAb detects endogenous levels o not cross-react with other cdk inhibitors.				s of total p21 protein.	The antibody does		
Source / Purification	Source / Purification  Monoclonal antibody is produced by immunizing animals with recombinant human p21 correspond the amino-terminal portion of p21.					L corresponding to	
Background	stoic assr (1). (2). poly duri upre	The tumor suppressor protein p21 Waf1/Cip1 acts as an inhibitor of cell cycle progression. It functions in stoichiometric relationships forming heterotrimeric complexes with cyclins and cyclin-dependent kinases. In association with CDK2 complexes, it serves to inhibit kinase activity and block progression through G1/S (1). However, p21 may also enhance assembly and activity in complexes of CDK4 or CDK6 and cyclin D (2). The carboxy-terminal region of p21 is sufficient to bind and inhibit PCNA, a subunit of DNA polymerase, and may coordinate DNA replication with cell cycle progression (3). Upon UV damage or during cell cycle stages when cdc2/cyclin B or CDK2/cyclin A are active, p53 is phosphorylated and upregulates p21 transcription via a p53-responsive element (4). Protein levels of p21 are downregulated through ubiquitination and proteasomal degradation (5).					
Background Refer	2. C 3. F 4. W	<ol> <li>Pestell, R.G. et al. (1999) Endocrine Rev. 20, 501-34.</li> <li>Cheng, J. et al. (1999) EMBO J. 18, 1571-83.</li> <li>Flores-Rozas, H. et al. (1994) Proc. Natl. Acad. Sci. USA 91, 8655-9.</li> <li>Wang, Y. and Prives, C. (1995) Nature 376, 88-91.</li> <li>Sheaff, R.J. et al. (2000) Cell 5, 403-10.</li> </ol>					

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)

**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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