#8831 Store at -20C

p21 Waf1/Cip1 (12D1) Rabbit mAb (Biotinylated)



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Applications: Re	eactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit IgG	UniProt ID: #P38936	Entrez-Gene l 1026	
Product Usage Information	•	plication estern Blotting			Dilution 1:1000		
Storage		Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliquot the antibodies.					
Specificity / Sensitivity		p21 Waf1/Cip1 (12D1) Rabbit mAb (Biotinylated) 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	ı					
Source / Purification	noclonal antibody is dues near the carbo		nunizing animals with a uman p21 protein.	synthetic peptide corre	esponding to		
Product Description	anti	This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated p21 Waf1/Cip1 (12D1) Rabbit mAb #2947.					
/IW (kDa)	kDa)			21			
Background	stoi ass (1). (2). poly duri upro	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. 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 Reference	2. C 3. F 4. V	 Pestell, R.G. et al. (1999) Endocrine Rev. 20, 501-34. Cheng, J. et al. (1999) EMBO J. 18, 1571-83. Flores-Rozas, H. et al. (1994) Proc. Natl. Acad. Sci. USA 91, 8655-9. Wang, Y. and Prives, C. (1995) Nature 376, 88-91. Sheaff, R.J. et al. (2000) Cell 5, 403-10. 					
Species Reactivity	Spec	cies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	estern blot).	
Western Blot Buffer		ORTANT: For weste		membrane with diluted	primary antibody in 5°	% w/v BSA, 1X TBS,	

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

1/1/24, 1:59 PM

p21 Waf1/Cip1 (12D1) Rabbit mAb (Biotinylated) (#8831) Datasheet Without Images Cell Signaling Technol...

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 Dq: dog Pq: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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