

For Research Use Only

P21 Polyclonal antibody

Catalog Number: 10240-1-AP **1 Publications**



Basic Information

Catalog Number: 10240-1-AP	GenBank Accession Number: BC000312	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 293 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1026	
Source: Rabbit	Full Name: cyclin-dependent kinase inhibitor 1A (p21, Cip1)	
Isotype: IgG	Calculated MW: 21 kDa	
Immunogen Catalog Number: AG0308		

Applications

Tested Applications:
IF, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human

Background Information

CDKN1A (p21, CIP1, WAF1), a cyclin-dependent kinase inhibitor, is necessary for proper control of the cell cycle and premature senescence. P21 is a cyclin-dependent kinase (CDK) inhibitor that suppresses proliferation by inhibiting CDK2 and CDK1 activity at the G1/S and G2/M transitions. P21 is a major mediator of p53 to induce cell cycle arrest in G1. p21 can interact with proliferating cell nuclear antigen (PCNA), and plays a regulatory role in S phase DNA replication and DNA damage repair. P21 was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of CDK2, and may be instrumental in the execution of apoptosis following caspase activation. Overexpression of p21 decreases the expression levels of cell cycle progression genes and upregulates senescence-inducing genes.

Notable Publications

Author	Pubmed ID	Journal	Application
Chen Song S	22427918	PLoS One	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

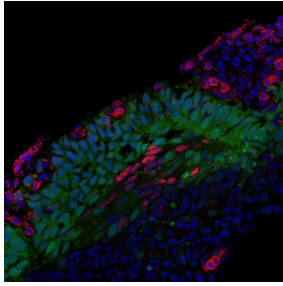
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



IF result of anti-P21(10240-1-AP) in the myotome of a somite at E11,5 by Dr. Zalc A. and Relaix F. (UPMC - UMRS 787).