

For Research Use Only

P21 Monoclonal antibody

Catalog Number: 60214-1-Ig

Featured Product

29 Publications



Basic Information

Catalog Number: 60214-1-Ig	GenBank Accession Number: BC000312	Purification Method: Protein A purification
Size: 150ul , Concentration: 1407 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1026	CloneNo.: 5F2F3
Source: Mouse	Full Name: cyclin-dependent kinase inhibitor 1A (p21, Cip1)	
Isotype: IgG2b	Calculated MW: 21 kDa	
Immunogen Catalog Number: AG0308		

Applications

Tested Applications:
ELISA

Cited Applications:
WB

Species Specificity:
monkey

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
Dahu Chen	33240028	Food Nutr Res	WB
Wei Liao	34776939	Front Pharmacol	WB
Rong-Zong Liu	30350349	J Pathol	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:
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Selected Validation Data