

# P21 Monoclonal antibody

Catalog Number: 60214-1-Ig

Featured Product

29 Publications

## Basic Information

Catalog Number:

60214-1-Ig

Size:

1407  $\mu$ g/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG0308

GenBank Accession Number:

BC000312

GeneID (NCBI):

1026

UNIPROT ID:

P38936

Full Name:

cyclin-dependent kinase inhibitor 1A  
(p21, Cip1)

Calculated MW:

21 kDa

Purification Method:

Protein A purification

CloneNo.:

5F2F3

## 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

For technical support and original validation data for this product please contact:

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