

# p21 Monoclonal antibody

Catalog Number: 67362-1-Ig 6 Publications

## Basic Information

Catalog Number:

67362-1-Ig

Size:

1800 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG28394

GenBank Accession Number:

NM\_001111099

GeneID (NCBI):

12575

UNIPROT ID:

P39689

Full Name:

cyclin-dependent kinase inhibitor 1A (P21)

Calculated MW:

18 kDa

Purification Method:

Protein A purification

CloneNo.:

3C7D3

Recommended Dilutions:

IF 1:50-1:500

## Applications

Tested Applications:

IF/ICC, ELISA

Cited Applications:

IF

Species Specificity:

mouse

Cited Species:

human, mouse, canine

Positive Controls:

IF : NIH/3T3 cells,

## Background Information

CDKN1A (p21, CIP1, WAF1) is a cyclin-dependent kinase inhibitor. CDKN1A binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at the G1 phase. The expression of CDKN1A is induced by wild-type but not mutant p53 protein, through which CDKN1A mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. CDKN1A can interact with proliferating cell nuclear antigen (PCNA), and plays a regulatory role in S phase DNA replication and DNA damage repair. CDKN1A 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaofang Zhu	36174712	Life Sci	
Xiaoyu Qi	35837283	Front Pharmacol	
Qing Ling	38670504	Chemosphere	IF

## 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:

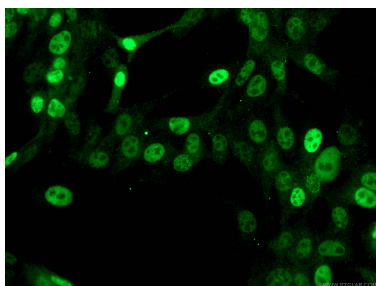
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using 67362-1-Ig (p21 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).