

For Research Use Only

p21 Monoclonal antibody

Catalog Number: 67362-1-Ig

12 Publications



Basic Information

Catalog Number:

67362-1-Ig

Size:

150ul, Concentration: 1800 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

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/ICC: 1:50-1:500

Applications

Tested Applications:

IF/ICC, ELISA

Cited Applications:

IF

Species Specificity:

mouse

Cited Species:

human, mouse, canine

Positive Controls:

IF/ICC : 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	
Yanfei Cheng	40225574	Theranostics	IF

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

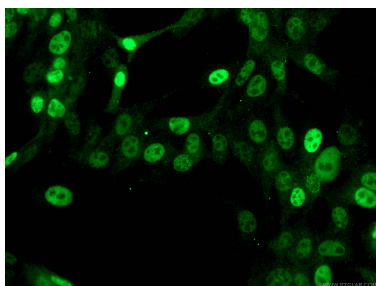
For technical support and original validation data for this product please contact:

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E: proteintech@ptglab.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).