

For Research Use Only

p21 Monoclonal antibody

Catalog Number: 67362-1-Ig **6 Publications**



Basic Information

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|---|---|---|
| Catalog Number: 67362-1-Ig | GenBank Accession Number: NM_001111099 | Purification Method: Protein A purification |
| Size: 1800 µg/ml | GeneID (NCBI): 12575 | CloneNo.: 3C7D3 |
| Source: Mouse | UNIPROT ID: P39689 | Recommended Dilutions: IF 1:50-1:500 |
| Isotype: IgG2b | Full Name: cyclin-dependent kinase inhibitor 1A (P21) | |
| Immunogen Catalog Number: AG28394 | Calculated MW: 18 kDa | |

Applications

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| Tested Applications: IF/ICC, ELISA | Positive Controls: IF : NIH/3T3 cells, |
| Cited Applications: IF | |
| Species Specificity: mouse | |
| Cited Species: human, mouse, canine | |

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:

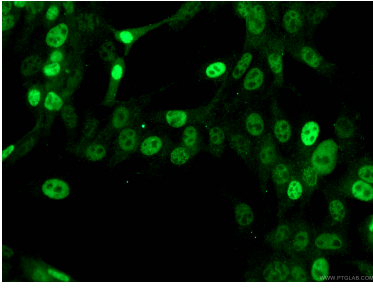
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Selected Validation Data



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).