

For Research Use Only

Mouse p21 Monoclonal antibody, PBS Only



Catalog Number: 67362-1-PBS

Basic Information

Catalog Number: 67362-1-PBS	GenBank Accession Number: NM_001111099	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 12575	CloneNo.: 3C7D3
Source: Mouse	UNIPROT ID: P39689	
Isotype: IgG2b	Full Name: cyclin-dependent kinase inhibitor 1A (P21)	
Immunogen Catalog Number: AG28394	Calculated MW: 18 kDa	

Applications

Tested Applications:
IF, ELISA

Species Specificity:
mouse

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.

Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only

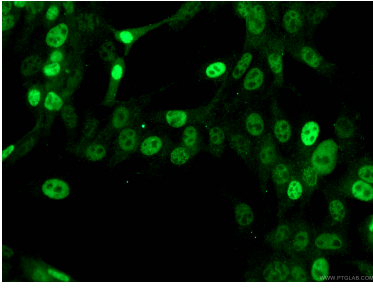
For technical support and original validation data for this product please contact:

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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). This data was developed using the same antibody clone with 67362-1-PBS in a different storage buffer formulation.