For Research Use Only

Mouse p21 Polyclonal antibody, PBS Only



Purification Method:

Antigen affinity purification

Catalog Number: 28248-1-PBS

Basic Information

Catalog Number:

28248-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source

Rabbit

AG28394

Isotype

IgG (P21)

Immunogen Catalog Number: Calculated MW:

18 kDa

Observed MW: 18 kDa

GenBank Accession Number:

cyclin-dependent kinase inhibitor 1A

NM_001111099

GeneID (NCBI):

UNIPROT ID:

Full Name:

12575

P39689

Applications

Tested Applications:

WB, IF/ICC, IP, Indirect ELISA

Species Specificity:

mouse, rat

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

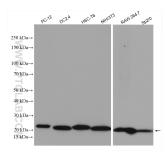
Storage:

Store at -80°C. Storage Buffer:

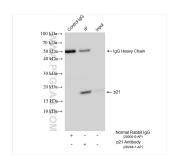
PBS Only

in USA), or 1(312) 455-8498 (outside USA)

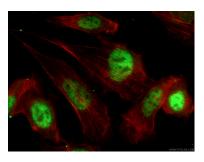
Selected Validation Data



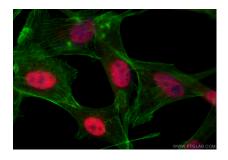
Various lysates were subjected to SDS PAGE followed by western blot with 28248-1-AP (p21 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 28248-1-PBS in a different storage buffer formulation.



IP result of anti-p21 (IP:28248-1-AP, 4ug; Detection:28248-1-AP 1:1000) with NIH/3T3 cells lysate 1920 ug. This data was developed using the same antibody clone with 28248-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using 28248-1-AP (p21 antibody), at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit 1gG(H+L). F-actin is stained using CL555-phalloidin (red). This data was developed using the same antibody clone with 28248-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using p21 antibody (28248-1-AP) at dilution of 1:200 and Coralite®594-Conjugated Goat Anti-Rabbit 1gG(H+L) (SA00013-4), CL488-phalloidin (green). This data was developed using the same antibody clone with 28248-1-PBS in a different storage buffer formulation.