For Research Use Only

P21 Recombinant antibody

Catalog Number:82669-2-RR



Basic Information

Catalog Number: GenBank Accession Number: **Purification Method:** 82669-2-RR Protein A purification BC000275

GeneID (NCBI): CloneNo.: 100ul, Concentration: 1000 µg/ml by 1026 3N14

Recommended Dilutions: Full Name:

Source: cyclin-dependent kinase inhibitor 1A WB 1:5000-1:20000

Rabbit (p21, Cip1) IP 0.5-4.0 ug for IP and 1:500-1:1000

for WB Isotype: Calculated MW:

IF 1:1000-1:4000 18 kDa IgG

Immunogen Catalog Number: Observed MW: 21 kDa

Applications

Tested Applications: Positive Controls:

IF, IP, WB, ELISA WB: HeLa cells, MCF-7 cells, U-87 MG cells, NIH/3T3

Species Specificity: cells Human, mouse

IP: MCF-7 cells, IF: MCF-7 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. Two alternatively spliced variants, which encode an identical protein, have been reported.

Storage

Storage:

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

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

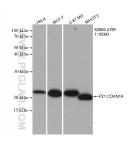
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

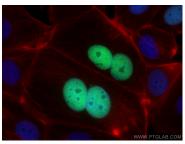
in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com

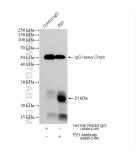
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82669-2-RR (P21;CDKN1A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using P21 antibody (82669-2-RR, Clone: 3N14) at dilution of 1:2000 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



IP result of anti-P21(IP:82669-2-RR, 4ug; Detection:82669-2-RR 1:800) with MCF-7 cells lysate 760 ug.