For Research Use Only

P21 Recombinant antibody

Catalog Number:82669-2-RR



Purification Method:

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

Basic Information

Catalog Number: GenBank Accession Number: 82669-2-RR BC000275

BC000275 Protein A purification

 Size:
 GeneID (NCBI):
 CloneNo.:

 1000 μ g/ml
 1026
 3N14

Source:UNIPROT ID:Recommended Dilutions:RabbitP38936WB 1:5000-1:20000

Isotype: Full Name: IP 0.5-4.0 ug for 1.0-3.0 mg of total

IgG cyclin-dependent kinase inhibitor 1A protein lysate
Immunogen Catalog Number: (p21, Cip1) IF 1:1000-1:4000

AG0368 Calculated MW:

18 kDa Observed MW: 21 kDa

Applications

Tested Applications: IF/ICC, IP, WB, ELISA

Species Specificity:

Human, mouse IP : MCF-7 cells,

IF: MCF-7 cells,

cells

Positive Controls:

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

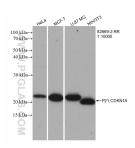
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

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

Aliquoting is unnecessary for -20°C storage

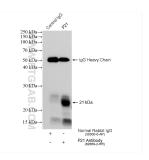
Selected Validation Data



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.