For Research Use Only

CoraLite® Plus 488-conjugated P21 Recombinant antibody

Catalog Number: CL488-82669-2



Purification Method:

Basic Information

Catalog Number: GenBank Accession Number:

CL488-82669-2 BC000275 Protein A purification

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

Nanodrop; **UNIPROT ID: Recommended Dilutions:**

IF/ICC 1:50-1:500 Source P38936

Rabbit **Full Name:** Excitation/Emission maxima

cyclin-dependent kinase inhibitor 1A wavelengths: Isotype 493 nm / 522 nm IgG (p21, Cip1)

Immunogen Catalog Number: Calculated MW:

AG0368 18 kDa

Observed MW: 21 kDa

Applications

Tested Applications: IF/ICC, FC (Intra)

Species Specificity:

human

Positive Controls:

IF/ICC: 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

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

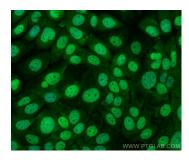
Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

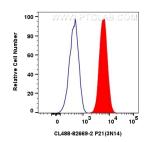
Aliquoting is unnecessary for -20°C storage

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

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using CoraLite® Plus 488 P21 antibody (CL488-82669-2, Clone: 3N14) at dilution of 1:200.



1x10^6 MCF-7 cells were intracellularly stained with 0.8 ug Coralite® Plus 488-conjugated P21 Recombinant antibody (CL488-82669-2, Clone:3N14)(red), or 0.8 ug Coralite® Plus 488-conjugated Rabbit 1gG control Rabbit PolyAb (CL488-30000) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).