

For Research Use Only

CoraLite®594-conjugated P21 Recombinant antibody

Catalog Number: CL594-82669-2



Basic Information

Catalog Number: CL594-82669-2	GenBank Accession Number: BC000275	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 1026	CloneNo.: 3N14
Source: Rabbit	UNIPROT ID: P38936	Recommended Dilutions: IF/ICC: 1:50-1:500
Isotype: IgG	Full Name: cyclin-dependent kinase inhibitor 1A (p21, Cip1)	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG0368	Calculated MW: 18 kDa	
	Observed MW: 21 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : MCF-7 cells,
Species Specificity: human	

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.

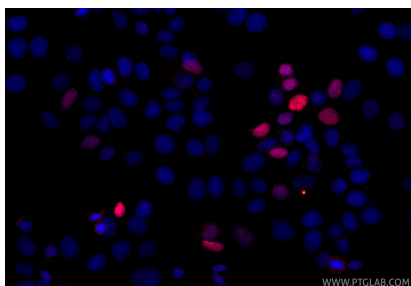
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using CoraLite®594 P21 antibody (CL594-82669-2, Clone: 3N14) at dilution of 1:200.