

For Research Use Only

p21 Recombinant monoclonal antibody

Catalog Number: 85435-2-RR



Basic Information

Catalog Number: 85435-2-RR	GenBank Accession Number: NM_001111099	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 12575	CloneNo.: 242478H2
Source: Rabbit	UNIPROT ID: P39689	Recommended Dilutions: WB: 1:500-1:2000 IF/ICC: 1:500-1:2000
Isotype: IgG	Full Name: cyclin-dependent kinase inhibitor 1A (P21)	
Immunogen Catalog Number: AG28249	Calculated MW: 18 kDa	
	Observed MW: 15-18 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: mouse	WB : NIH/3T3 cells, Neuro-2a cells, DC2.4 cells, RAW 264.7 cells IF/ICC : NIH/3T3 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.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

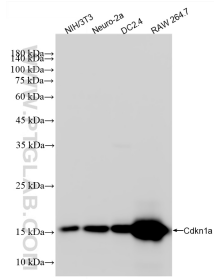
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

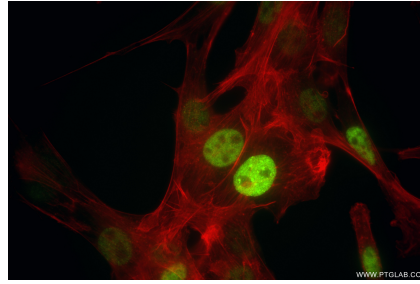
E: proteintech@ptglab.com
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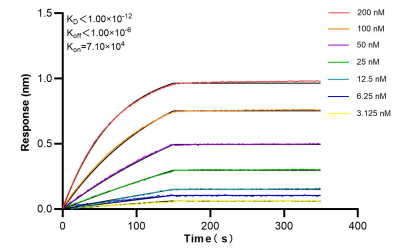
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85435-2-RR (Cdkn1a antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using Cdkn1a antibody (85435-2-RR, Clone: 242478H2) at dilution of 1:1000 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Bilayer interferometry (BLI) kinetic assays of 85435-2-RR against Mouse p21 were performed. The affinity constant is below 1 pM.