

For Research Use Only

# CoraLite® Plus 488-conjugated CDK1 Recombinant monoclonal antibody

Catalog Number: CL488-84271

Featured Product



## Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
CL488-84271	BC014563	Protein A purification
Size:	GenelD (NCBI):	CloneNo.:
1000 μl, Concentration: 1000 ug/ml by Nanodrop;	983	240937C5
Source:	UNIPROT ID:	Recommended Dilutions:
Rabbit	P06493	IF/ICC: 1:50-1:500
Isotype:	Full Name:	Excitation/Emission maxima
IgG	cell division cycle 2, G1 to S and G2 to M	wavelengths: 493 nm / 522 nm
Immunogen Catalog Number:	Calculated MW:	
AG29018	25 kDa	
	Observed MW:	
	34 kDa	

## Applications

Tested Applications:	Positive Controls:
IF/ICC	IF/ICC : HeLa cells,
Species Specificity:	
human, mouse	

## Background Information

CDK1, also named as CDC2, belongs to the protein kinase superfamily, CMGC Ser/Thr protein kinase family and CDC2/CDKX subfamily. CDK1 plays a key role in the control of the eukaryotic cell cycle. It is required in higher cells for entry into S-phase and mitosis. CDK1 is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. It is a component of the kinase complex that phosphorylates the repetitive C-terminus of RNA polymerase II. Mitotic cyclins stably associate with CDK1 and function as regulatory subunits. CDK1 has 2 isoforms produced by alternative splicing with the molecular mass of 34 kDa and 27 kDa. This antibody may have cross reaction with CDK2.

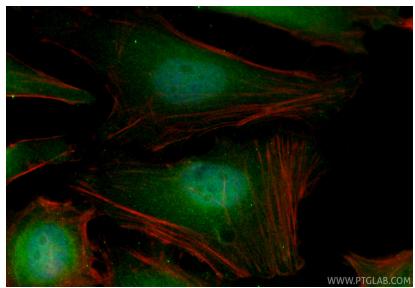
## Storage

**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  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 CDK1 antibody (C4488-84271, Clone: 240937C5) at dilution of 1:200, CL594-phalloidin (red).