

For Research Use Only

CDK1 Polyclonal antibody

Catalog Number:10762-1-AP

Featured Product

77 Publications



Basic Information

Catalog Number: 10762-1-AP	GenBank Accession Number: BC014563	Purification Method: Antigen affinity purification
Concentration: 400 ug/ml	GeneID (NCBI): 983	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:250-1:1000 IF/ICC 1:200-1:800
Source: Rabbit	UNIPROT ID: P06493	
Isotype: IgG	Full Name: cell division cycle 2, G1 to S and G2 to M	
Immunogen Catalog Number: AG1183	Calculated MW: 25 kDa	
	Observed MW: 30-34 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : C2C12 cell, HeLa cells, C2C12 cells, Jurkat cells IHC : human prostate cancer tissue, human breast cancer tissue IF/ICC : HeLa cells,
Cited Applications: WB, IHC, IF	
Species Specificity: human, mouse	
Cited Species: human, mouse, pig, chicken, goat	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Zilu Zhang	34570444	Cancer Biol Med	WB
Qin Zhang	36083512	Mol Cell Biochem	WB
Huan Ma	33573708	Oncol Res	WB

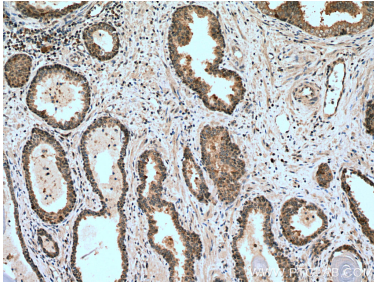
Storage

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

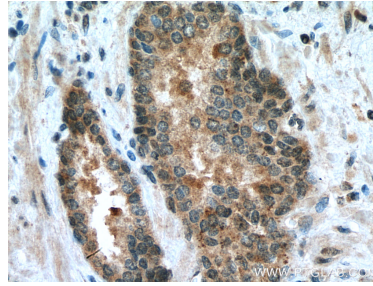
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

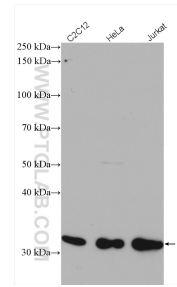
Selected Validation Data



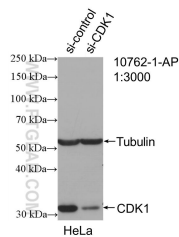
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 10762-1-AP (CDK1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



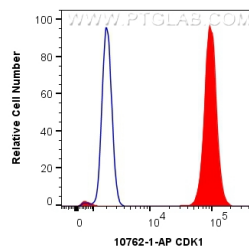
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 10762-1-AP (CDK1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



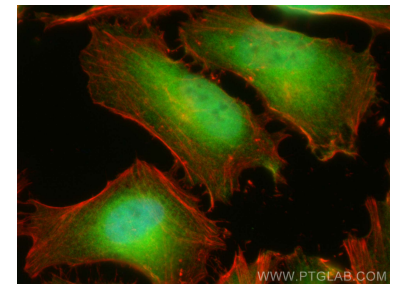
Various lysates were subjected to SDS PAGE followed by western blot with 10762-1-AP (CDK1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



WB result of CDK1 antibody (10762-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CDK1 transfected HeLa cells.



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human CDK1 (10762-1-AP) and CoraLite[®]488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CDK1 antibody (10762-1-AP) at dilution of 1:400 and CoraLite[®]488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).