For Research Use Only

CDK1-Specific Polyclonal antibody

Catalog Number: 19532-1-AP

Featured Product

170 Publications



Basic Information	Catalog Number: 19532-1-AP Size: 150ul, Concentration: 550 µg/ml by Nanodrop; Source: Rabbit Isotype: IgG	GenBank Accession Number: NM_001786 GeneID (NCBI): 983 UNIPROT ID: P06493 Full Name: cell division cycle 2, G1 to 5 M Calculated MW: 34 kDa Observed MW: 34 kDa	Antigen affinity Recommended E WB 1:2000-1:100 IP 0.5-4.0 ug for : protein lysate IHC 1:100-1:400 IF 1:200-1:800	purification Dilutions:
Applications	Tested Applications: WB, IP, IF, FC, IHC, ELISA Cited Applications: WB, IF, IHC	Positive Controls: WB : A431 cells, HeLa cells, HEK-293 cells, COS-7 ce HepG2 cells, C2C12 cells, C6 cells, Jurkat cells, NIH/3T3 cells. Neuro-2a cells. MCF-7 cells		lls, Jurkat cells,
	Species Specificity:		eLa cells, HEK-293 cells	
	human, mouse, rat, monkey		human cervical cancer tiss	ue.
	Cited Species: human, chicken, rat, sheep, mouse, pig		IF : HeLa cells,	
Background Information	retrieval may be performed w buffer pH 6.0 CDK1, also named as CDC2, belongs CDC2/CDKX subfamily. CDK1 plays a for entry into S-phase and mitosis. C known as M-phase promoting factor cycle. It is a component of the kinase Mitotic cyclins stably associate with alternative splicing with the molecu	to the protein kinase superfan a key role in the control of the DK1 is a catalytic subunit of th (MPF), which is essential for G a complex that phosphorylates CDK1 and function as regulate	eukaryotic cell cycle. It is i e highly conserved proteir L/S and G2/M phase transi the repetitive C-terminus ry subunits. CDK1 has 2 iso	equired in higher cell kinase complex tions of eukaryotic cel of RNA polymerase II.
Notable Publications	Author Put	omed ID Journal		Application
	Xiaoman Chen 302	207732 Mol Pharm		WB
	Hui-Ting Liu 346	667869 Laryngoscope	Investig Otolaryngol	WB
	Hongxia Li 34	558311 Epigenomics		WB
Storage	Storage: Store at -20°C. Stable for one year af Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C st	0% glycerol pH 7.3.		
*** 20ul sizes contain 0.1% BSA				
	ta for this product please contact:		oduct is exclusively availa	

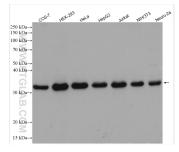
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com

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

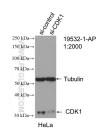
W: ptglab.com

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

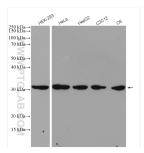
Selected Validation Data



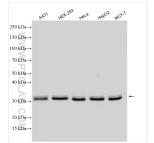
Various lysates were subjected to SDS PAGE followed by western blot with 19532-1-AP (CDK1-Specific antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



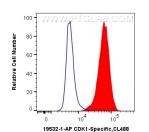
WB result of CDK1-Specific antibody (19532-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CDK1-Specific transfected HeLa cells.



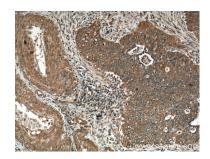
Various lysates were subjected to SDS PAGE followed by western blot with 19532-1-AP (CDK1-Specific antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



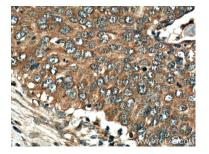
Various lysates were subjected to SDS PAGE followed by western blot with 19532-1-AP (CDK1-Specific antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



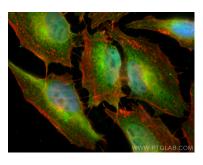
1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human CDK1-Specific (19532-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



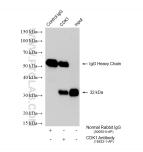
Immunohistochemical analysis of paraffinembedded human cervical cancer tissue slide using 19532-1-AP (CDK1-Specific antibody at dilution of 1:200 (under 10x lens).



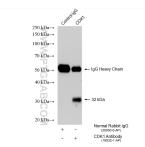
Immunohistochemical analysis of paraffinembedded human cervical cancer tissue slide using 19532-1-AP (CDK1-Specific antibody at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CDK1-Specific antibody (19532-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



IP result of anti-CDK1-Specific (IP:19532-1-AP, 4ug; Detection:19532-1-AP 1:5000) with HeLa cells lysate 1600 ug.



IP result of anti-CDK1-Specific (IP:19532-1-AP, 4ug; Detection:19532-1-AP 1:5000) with HEK-293 cells lysate 1200 ug.