

For Research Use Only

CDK6 Polyclonal antibody

Catalog Number: 14052-1-AP

Featured Product

208 Publications



Basic Information

Catalog Number:

14052-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5275

GenBank Accession Number:

BC027989

GeneID (NCBI):

1021

UNIPROT ID:

Q00534

Full Name:

cyclin-dependent kinase 6

Calculated MW:

326 aa, 36 kDa

Observed MW:

36-40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:8000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:250-1:1000

IF/ICC: 1:200-1:800

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF, FC (Intra), IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, zebrafish, goat

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

Positive Controls:

WB: Jurkat cells, C2C12 cells, MOLT-4 cells, NIH/3T3 cells, K-562 cells

IP: Jurkat cells,

IHC: human urothelial carcinoma tissue, human endometrial cancer tissue, human lung cancer tissue, mouse colon tissue, rat testis tissue

IF/ICC: HeLa cells,

FC (Intra): HeLa cells,

Background Information

CDK6 (Cyclin-dependent kinase 6) is involved in initiation and maintenance of cell cycle exit during cell differentiation and it prevents cell proliferation and regulates negatively cell differentiation, but is required for the proliferation of specific cell types. The molecular weight of CDK6 is 36-40 kDa (PMID: 23563707).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoman Chen	30207732	Mol Pharm	WB
He Cao	33046987	J Cancer	WB
Fang Li	36116238	Ecotoxicol Environ Saf	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

*** 20ul sizes contain 0.1% BSA

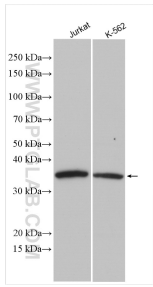
For technical support and original validation data for this product please contact:

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

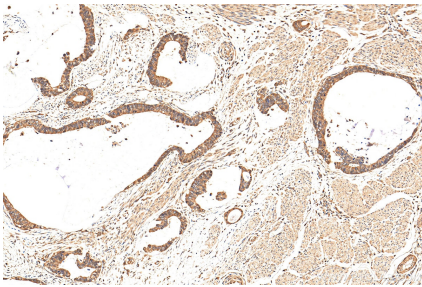
E: proteintech@ptglab.com
W: ptglab.com

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

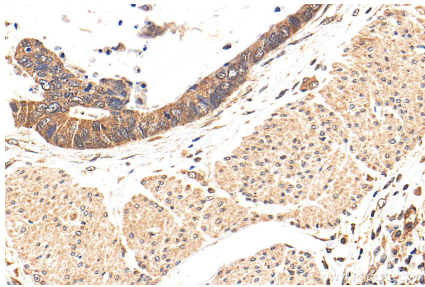
Selected Validation Data



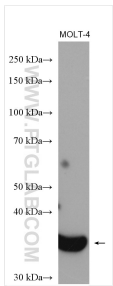
Various lysates were subjected to SDS PAGE followed by western blot with 14052-1-AP (CDK6 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



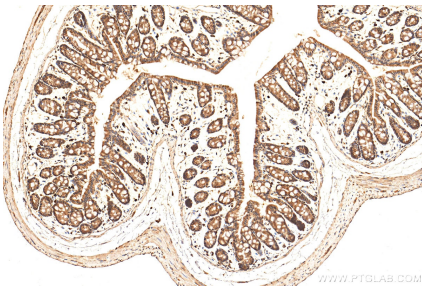
Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 14052-1-AP (CDK6 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



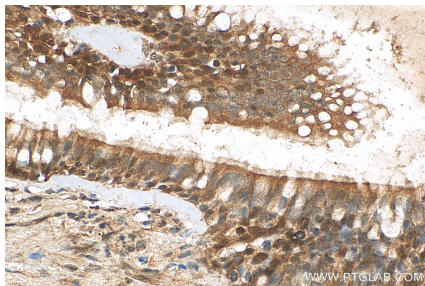
Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 14052-1-AP (CDK6 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



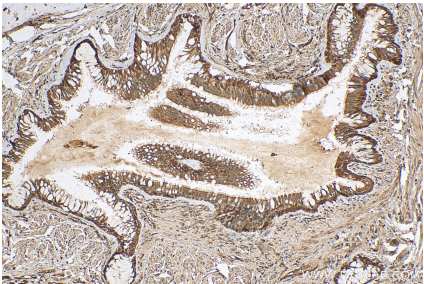
MOLT-4 cells were subjected to SDS PAGE followed by western blot with 14052-1-AP (CDK6 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



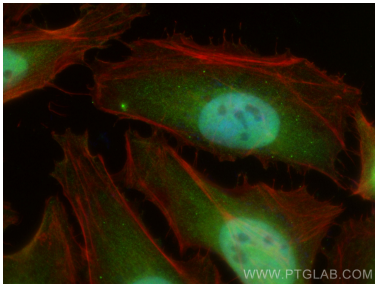
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 14052-1-AP (CDK6 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



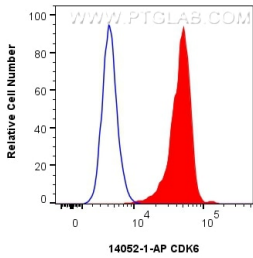
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 14052-1-AP (CDK6 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



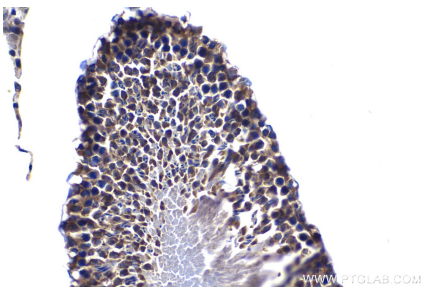
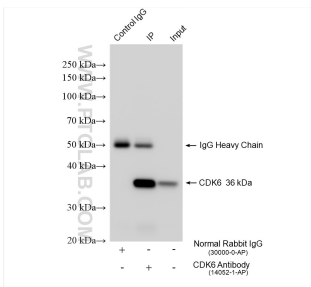
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 14052-1-AP (CDK6 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CDK6 antibody (14052-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug CDK6 Polyclonal antibody (14052-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



www.ptglab.com

IP result of anti-CDK6 (IP:14052-1-AP, 4ug;
Detection:14052-1-AP 1:4000) with Jurkat cells
lysate 1400 ug.

Immunohistochemical analysis of paraffin-
embedded rat testis tissue slide using 14052-1-AP
(CDK6 antibody) at dilution of 1:500 (under 40x
lens). Heat mediated antigen retrieval with Tris-
EDTA buffer (pH 9.0).