For Research Use Only

CDK2 Polyclonal antibody

Catalog Number:10122-1-AP Featured Product 254 Publications

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Basic Information

Catalog Number:
10122-1-AP

Size:
150ul , Concentration: 600 µg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0166

GenBank Accession Number:
BC003065

GeneID (NCBI):
1017

UNIPROT ID:
P24941

Full Name:
cyclin-dependent kinase 2

Calculated MW:
33 kDa

Observed MW:
33 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:16000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:50-1:500

Applications

Tested Applications:
WB, IP, IF, FC, IHC, ELISA

Cited Applications:
WB, IP, IF, FC, IHC, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, sheep, sea cucumbers, mouse, fish, zebrafish

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 : HepG2 cells, MCF-7 cells, A431 cells, NIH/3T3 cells, rat kidney tissue, HEK-293 cells, Jurkat cells, K-562 cells, Hela cells

IP : HeLa cells,

IHC : human liver cancer tissue, human prostate cancer tissue

IF : HeLa cells, mouse testis tissue

Background Information

CDK2(Cyclin-dependent kinase 2) is also named as CDKN2 and belongs to the protein kinase superfamily,CMGC Ser/Thr protein kinase family, CDC2/CDKX subfamily.It is involved in the control of the cell cycle; essential for meiosis, but dispensable for mitosis.It has 2 isoforms produced by alternative splicing.

Notable Publications

Author	Pubmed ID	Journal	Application
Jing Zhao	32986180	Biotechnol Lett	WB
Xiaoman Chen	30207732	Mol Pharm	WB
Jingjing Pan	36152427	Ecotoxicol Environ Saf	WB

Storage

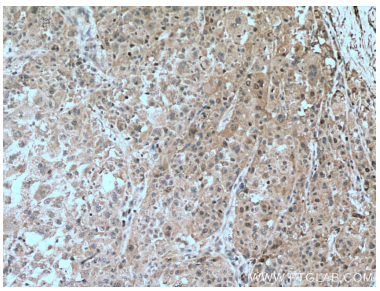
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

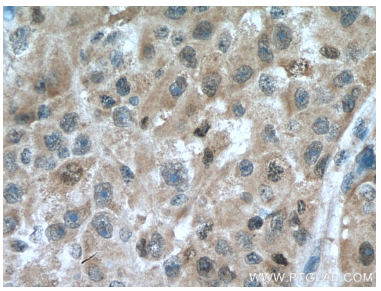
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

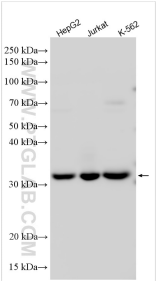
Selected Validation Data



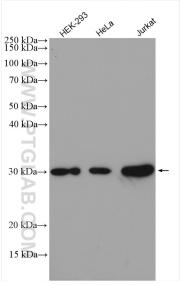
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10122-1-AP (CDK2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



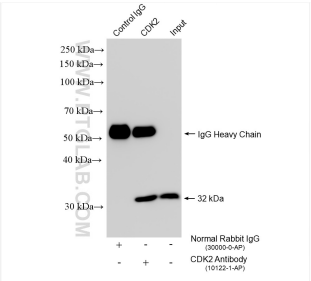
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10122-1-AP (CDK2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



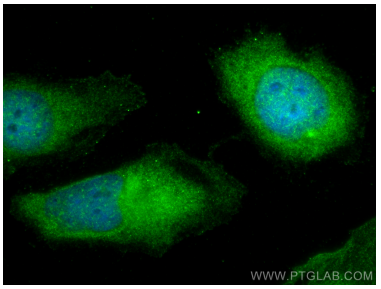
Various lysates were subjected to SDS PAGE followed by western blot with 10122-1-AP (CDK2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



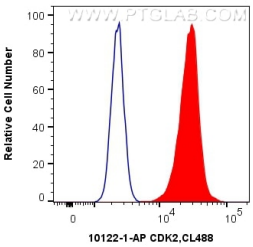
Various lysates were subjected to SDS PAGE followed by western blot with 10122-1-AP (CDK2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-CDK2 (IP:10122-1-AP, 4ug; Detection:10122-1-AP 1:10000) with HeLa cells lysate 1200 ug.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CDK2 antibody (10122-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human CDK2 (10122-1-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).