

CDK2

Polyclonal ANTIBODY

Catalog Number: 10122-1-AP

Featured Product

55 Publications

Basic Information

Catalog Number:
10122-1-AP

Size:
60 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG0166

GenBank Accession Number:
BC003065

GeneID (NCBI):
1017

Full Name:
cyclin-dependent kinase 2

Calculated MW:
33 kDa

Observed MW:
33 kDa

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for IP and 1:500-1:3000 for WB

IF 1:20-1:200

Applications

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

Cited Applications:
CoIP, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, zebrafish

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

Positive Controls:

WB : K-562 cells; A431 cells, HEK-293 cells, HeLa cells, HL-60 cells, Jurkat cells, MCF-7 cells, NIH/3T3 cells, rat kidney tissue

IP : HeLa cells;

IF : HepG2 cells;

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
Xaoman Chen	30207732	Mol Pharm	WB
Vermont P Dia	27628414	Sci Rep	WB
Yingjie Zhao	28979815	Am J Cancer Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

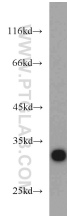
For technical support and original validation data for this product please contact:

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

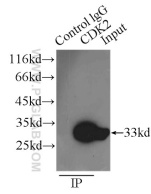
E: proteintech@ptglab.com
W: ptglab.com

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

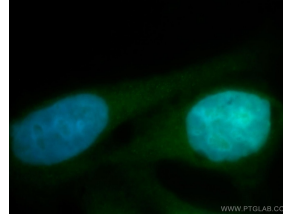
Selected Validation Data



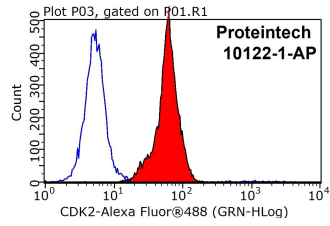
K-562 cells were subjected to SDS PAGE followed by western blot with 10122-1-AP (CDK2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours



IP Result of anti-CDK2 (IP:10122-1-AP, 3ug; Detection:10122-1-AP 1:1500) with HeLa cells lysate 4650ug.



Immunofluorescent analysis of HepG2 cells, using CDK2 antibody 10122-1-AP at 1:100 dilution and FITC-labeled donkey anti-rabbit IgG (green). Blue pseudocolor = DAPI (fluorescent DNA dye).



1X10⁶ HepG2 cells were stained with 0.2ug CDK2 antibody (10122-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.