

For Research Use Only

# CDK4 Polyclonal antibody

Catalog Number:HK210091L



## Basic Information

Catalog Number:

HK210091L

Size:

200UL, Concentration: 353 µg/ml  
by Bradford method using BSA as the  
standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1505

GenBank Accession Number:

BC010153

GeneID (NCBI):

1019

Full Name:

cyclin-dependent kinase 4

Calculated MW:

34 kDa

Observed MW:

34 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 µg for IP and 1:500-1:2000  
for WB

IHC 1:150-1:600

## Applications

Tested Applications:

FC, IHC, IP, WB, ELISA

Cited Applications:

CoIP, IF, IHC, IP, RIP, WB

Species Specificity:

human, mouse, rat

Cited Species:

canine, human, mouse, rat, 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 : HeLa cells, HepG2 cells, rat pancreas tissue

IP : HeLa cells,

IHC : human lung cancer tissue, human breast cancer  
tissue

## Background Information

Cyclin-dependent kinase-4 (CDK4) is a protein-serine kinase involved in the cell cycle. It is essential for the G1- to S-phase transition during the cell cycle and its expression is primarily controlled at the transcriptional level (PMID:17253961). CCND1-CDK4 axis is not only critical in glial tumor cells but also in stromal-derived cells in the surrounding tumor microenvironment that are vital to sustain tumor outgrowth (PMID:21844184).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yue Wang	27690088	Nutrients	WB
Xiaoman Chen	30207732	Mol Pharm	WB
Zhirui Zhang	27658586	J Exp Clin Cancer Res	WB

## Storage

Storage:

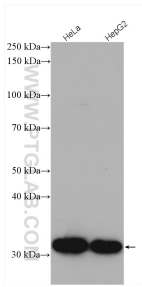
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

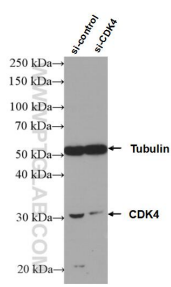
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

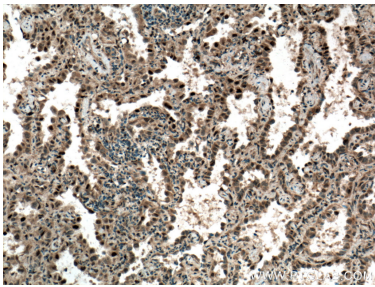
Selected Validation Data



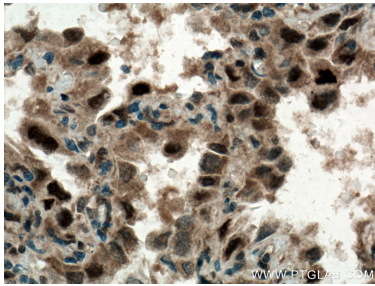
Various lysates were subjected to SDS PAGE followed by western blot with 11026-1-AP (CDK4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



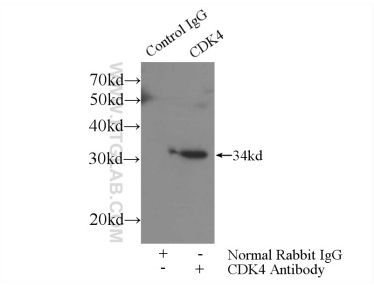
WB result of CDK4 antibody (11026-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CDK4 transfected HepG2 cells.



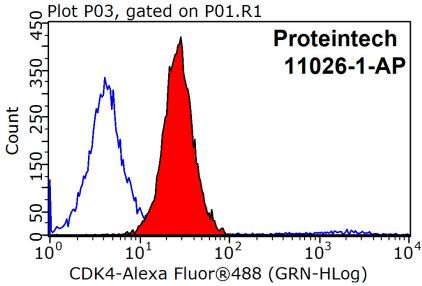
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11026-1-AP (CDK4 antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11026-1-AP (CDK4 antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-CDK4 (IP:11026-1-AP, 3ug; Detection:11026-1-AP 1:1000) with HeLa cells lysate 4000ug.



1X10<sup>6</sup> MCF-7 cells were stained with 0.2ug CDK4 antibody (11026-1-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.