

For Research Use Only

# CDK4 Recombinant antibody

Catalog Number: 83994-3-RR

Featured Product

1 Publications



## Basic Information

Catalog Number:

83994-3-RR

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG20538

GenBank Accession Number:

BC010153

GeneID (NCBI):

1019

UNIPROT ID:

P11802

Full Name:

cyclin-dependent kinase 4

Calculated MW:

34 kDa

Observed MW:

30-34 kDa

Purification Method:

Protein A purification

CloneNo.:

241053F10

Recommended Dilutions:

WB: 1:1000-1:4000

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

IHC: 1:50-1:500

IF/ICC: 1:200-1:800

## Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human

**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 : A431 cells, HeLa cells, MCF-7 cells, HepG2 cells

IP : HeLa cells,

IHC : human cervical squamous cancer tissue,

IF/ICC : MCF-7 cells,

## 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). The CCND1-CDK4 axis is critical not only in glial tumor cells but also in stromal-derived cells in the surrounding tumor microenvironment, which are vital to sustain tumor outgrowth (PMID:21844184).

## Notable Publications

| Author      | Pubmed ID | Journal     | Application |
|-------------|-----------|-------------|-------------|
| Hongyan Lin | 40010132  | Bioorg Chem | 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

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

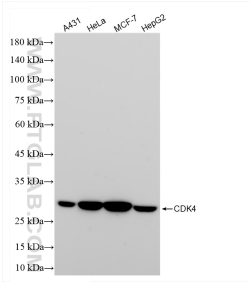
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

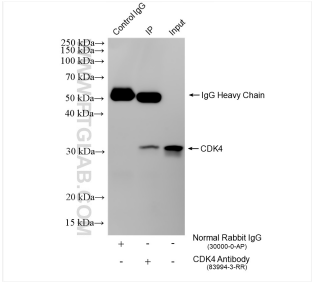
W: [ptgcn.com](http://ptgcn.com)

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

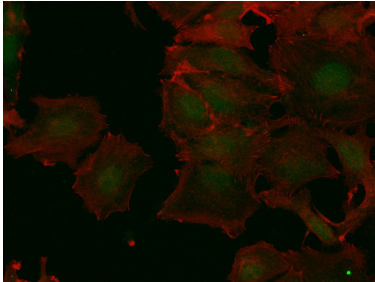
Selected Validation Data



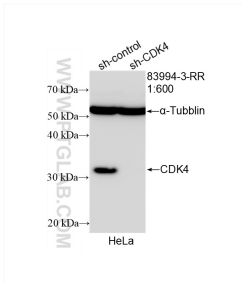
Various lysates were subjected to SDS PAGE followed by western blot with 83994-3-RR (CDK4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



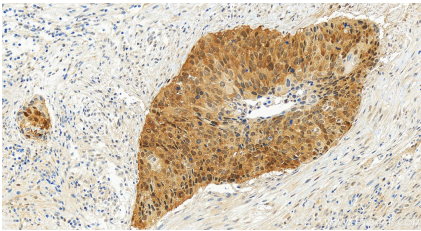
IP result of anti-CDK4 (IP:83994-3-RR, 4ug; Detection:83994-3-RR 1:500) with HeLa cells lysate 1280 ug.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using CDK4 antibody (83994-3-RR, Clone: 241053F 10 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



WB result of CDK4 antibody (83994-3-RR; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-CDK4 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human cervical squamous cancer tissue slide using 83994-3-RR (CDK4 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).