

# CDK4 Rabbit pAb

Catalog No.: A0366 **19 Publications**

## Basic Information

**Catalog No.**

A0366

**Observed MW**

34kDa

**Calculated MW**

20kDa/33kDa

**Category**

Primary antibody

**Applications**

WB, IHC, IF, IP

**Cross-Reactivity**

Human, Mouse, Rat

## Recommended Dilutions

<b>WB</b>	1:500 - 1:2000
<b>IHC</b>	1:50 - 1:200
<b>IF</b>	1:50 - 1:200
<b>IP</b>	1:50 - 1:200

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## Background

The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of *S. cerevisiae* cdc28 and *S. pombe* cdc2. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported.

## Immunogen Information

<b>Gene ID</b>	<b>Swiss Prot</b>
1019	P11802

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 1-303 of human CDK4 (NP\_000066.1).

**Synonyms**

CDK4;CMM3;PSK-J3

## Product Information

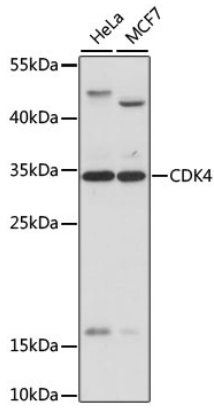
<b>Source</b>	<b>Isotype</b>	<b>Purification</b>
Rabbit	IgG	Affinity purification

**Storage**

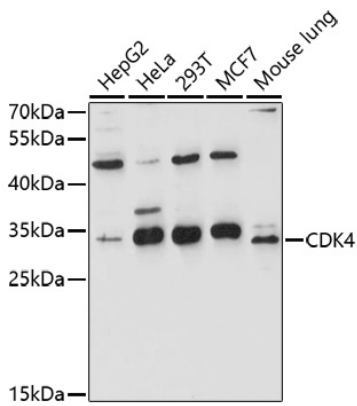
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

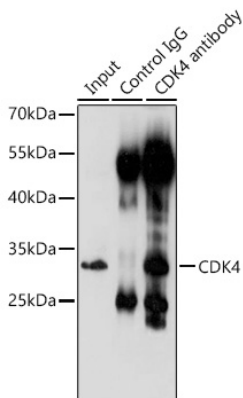
## Validation Data



Western blot analysis of extracts of various cell lines, using CDK4 antibody (A0366) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 10s.



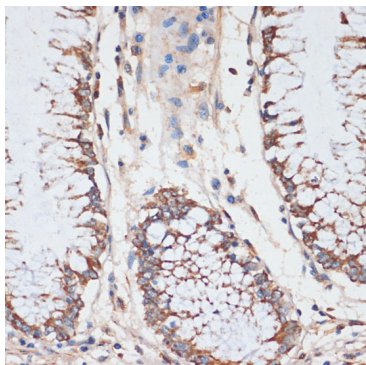
Western blot analysis of extracts of various cell lines, using CDK4 antibody (A0366) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 3min.



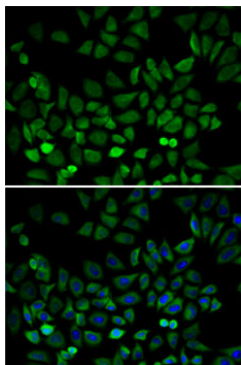
Immunoprecipitation analysis of 200ug extracts of 293T cells using 3ug CDK4 antibody (A0366).  
Western blot was performed from the immunoprecipitate using CDK4 antibody (A0366) at a dilution of 1:1000.

## Validation Data

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Immunohistochemistry of paraffin-embedded human colon using CDK4 antibody (A0366) at dilution of 1:100 (40x lens).



Immunofluorescence analysis of A-549 cells using CDK4 antibody (A0366). Blue: DAPI for nuclear staining.