

# [KO Validated] CDK9 Rabbit mAb

Catalog No.: A11145 **KO Validated** **Recombinant** **5 Publications**

## Basic Information

### Observed MW

42kDa/55kDa

### Calculated MW

43kDa

### Category

Primary antibody

### Applications

WB,IHC-P,IF/ICC,IP,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC0527


## Background

The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of *S. cerevisiae* cdc28, and *S. pombe* cdc2, and known as important cell cycle regulators. This kinase was found to be a component of the multiprotein complex TAK/P-TEFb, which is an elongation factor for RNA polymerase II-directed transcription and functions by phosphorylating the C-terminal domain of the largest subunit of RNA polymerase II. This protein forms a complex with and is regulated by its regulatory subunit cyclin T or cyclin K. HIV-1 Tat protein was found to interact with this protein and cyclin T, which suggested a possible involvement of this protein in AIDS.

## Recommended Dilutions

<b>WB</b>	1:500 - 1:3000
<b>IHC-P</b>	1:200 - 1:2000
<b>IF/ICC</b>	1:50 - 1:400
<b>IP</b>	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Contact

 | 400-999-6126

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## Immunogen Information

### Gene ID

1025

### Swiss Prot

P50750

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 273-372 of human CDK9 (P50750).

### Synonyms

TAK; C-2k; CTK1; CDC2L4; PITALRE; K9

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

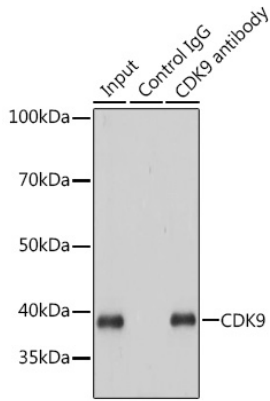
Affinity purification

### Storage

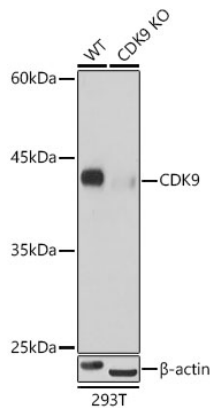
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

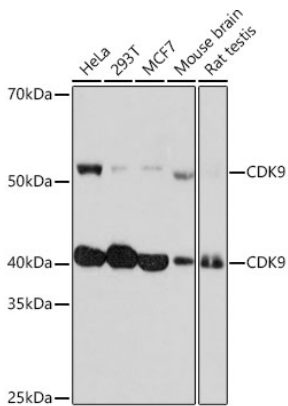
## Validation Data



Immunoprecipitation analysis of 200 µg extracts of HeLa cells using 3 µg CDK9 antibody (A11145). Western blot was performed from the immunoprecipitate using CDK9 antibody (A11145) at a dilution of 1:1000.

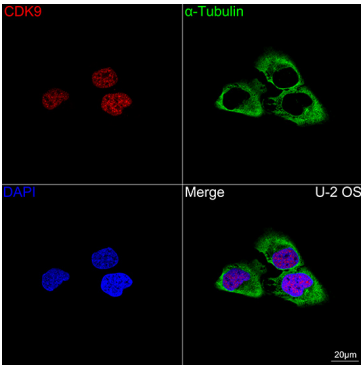


Western blot analysis of lysates from wild type (WT) and CDK9 knockout (KO) 293T cells, using [KO Validated] CDK9 Rabbit mAb (A11145) at 1:500 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

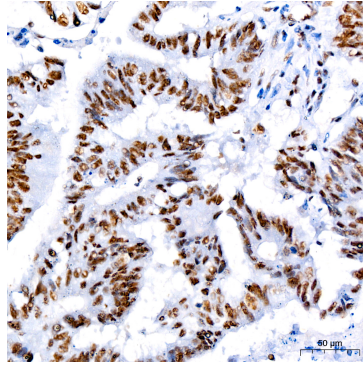


Western blot analysis of various lysates using CDK9 Rabbit mAb (A11145) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 3min.

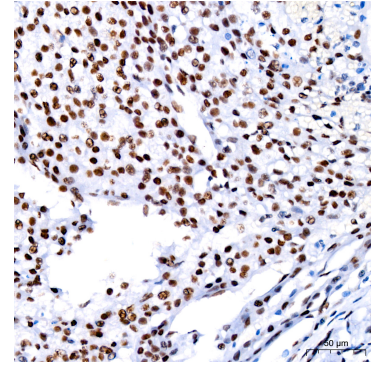
## Validation Data



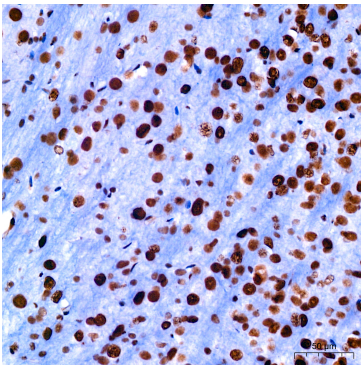
Confocal imaging of U-2 OS cells using [KO Validated] CDK9 Rabbit mAb (A11145, dilution 1:50) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 60x.



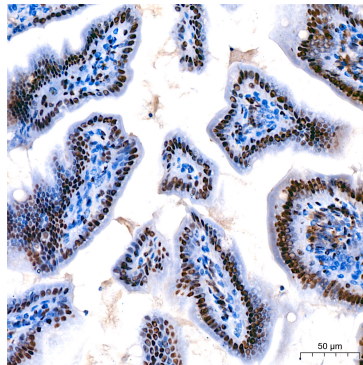
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



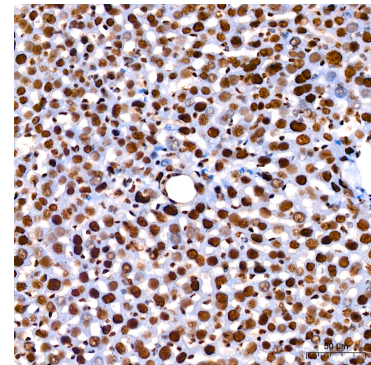
Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



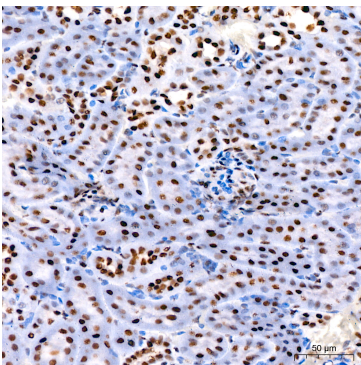
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.