# [KO Validated] CDK9 Rabbit mAb

ABclonal

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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**

**WB** 1:500 - 1:3000

IHC-P 1:200 - 1:2000

**IF/ICC** 1:50 - 1:400

**IP** 0.5μg-4μg antibody for

200µg-400µg extracts of

whole cells

**ELISA** Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

### **Contact**

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# Immunogen Information

**Gene ID Swiss Prot** 1025 P50750

### **Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

# **Synonyms**

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

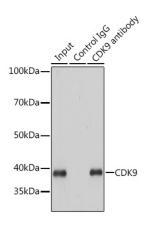
## **Product Information**

SourceIsotypePurificationRabbitIgGAffinity purification

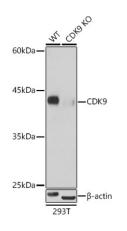
#### Storage

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

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



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.

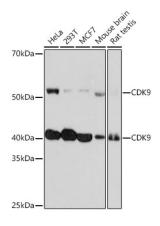
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.

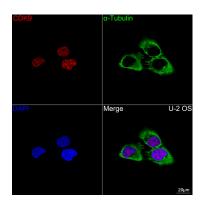


Western blot analysis of various lysates using CDK9 Rabbit mAb (A11145) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit  $lgG\ (H+L)\ (AS014)$  at 1:10000 dilution.

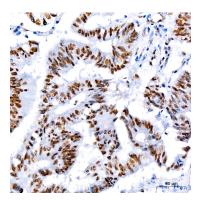
Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020).

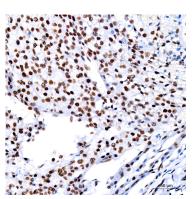
Exposure time: 3min.



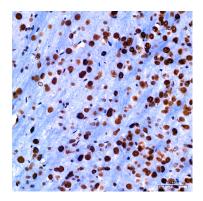
Confocal imaging of U-2 OS cells using [KO Validated] CDK9 Rabbit mAb (A11145,dilution 1:50)(Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (ACO12,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective:



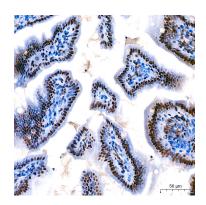
Immunohistochemistry analysis of paraffinembedded Human colon carcinoma tissue using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



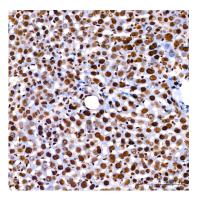
Immunohistochemistry analysis of paraffinembedded Human liver cancer tissue using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



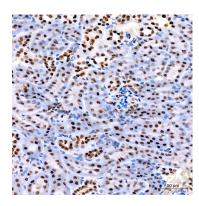
Immunohistochemistry analysis of paraffinembedded Mouse brain tissue using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded 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 buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded 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 buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded 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 buffer (pH 6.0) prior to IHC staining.