

[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

Clone/No. 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.

Immunogen Information

Gene ID

1025

Swiss Prot

P50750

Immunogen

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

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

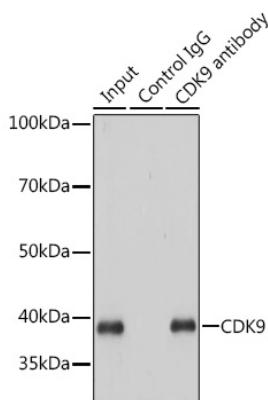
Contact

 | 400-999-6126

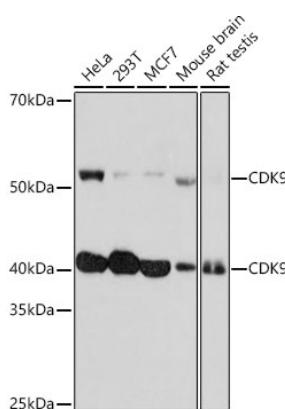
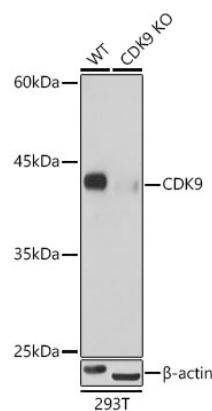
 | cn.market@abclonal.com.cn

 | www.abclonal.com.cn

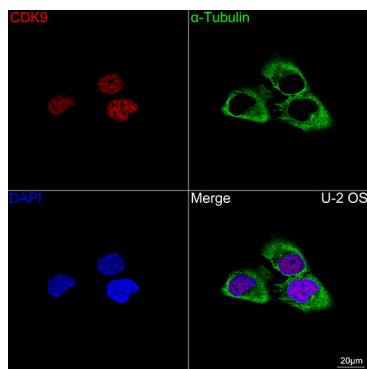
Validation Data



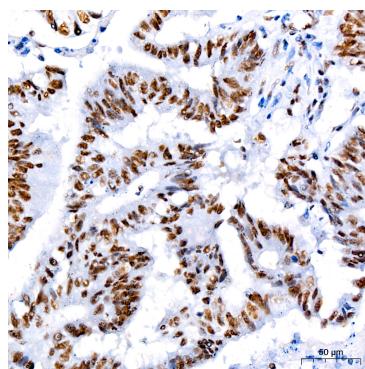
Immunoprecipitation analysis of 200 µg extracts of HeLa cells using 3 µg CDK9 antibody (A11145). Western blot was performed from the immunoprecipitate using CDK9 antibody (A11145) at a dilution of 1:1000.



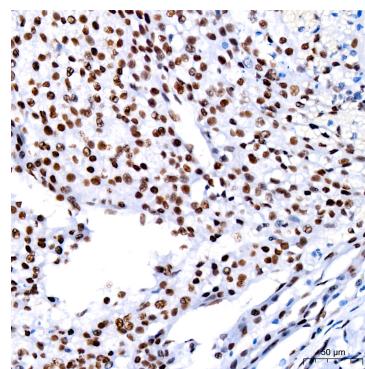
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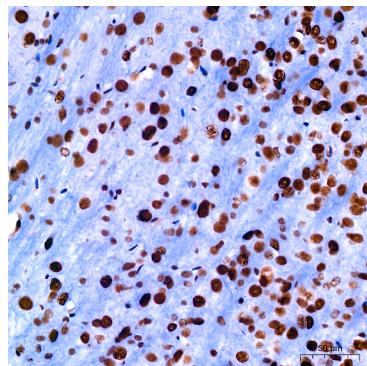
Confocal imaging of U-2 OS cells using [KO Validated] CDK9 Rabbit mAb (A11145, dilution 1:50) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 60x.



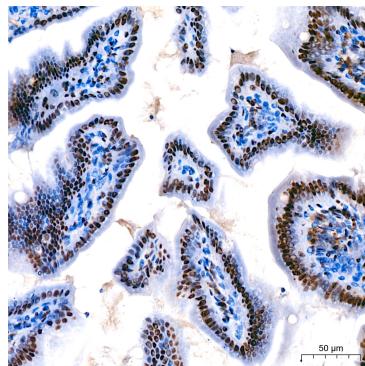
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



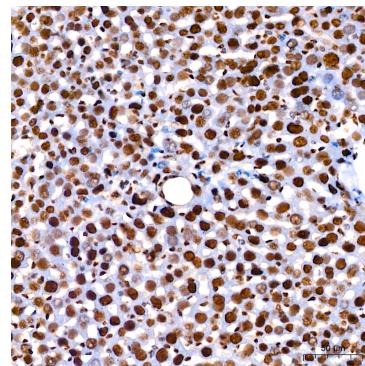
Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



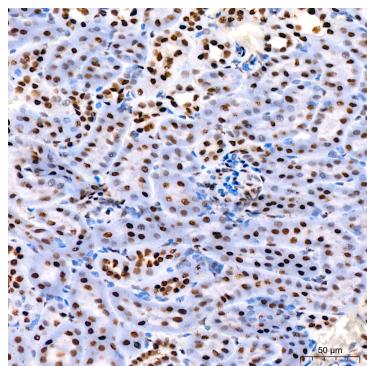
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



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 buffer (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 buffer (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 buffer (pH 6.0) prior to IHC staining.