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

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 - 1:1000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

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

Contact

400-999-6126

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Product Information

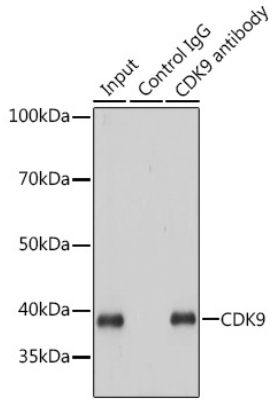
Source
Rabbit

Isotype
IgG

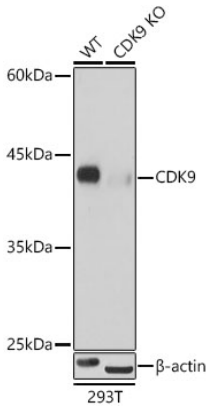
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

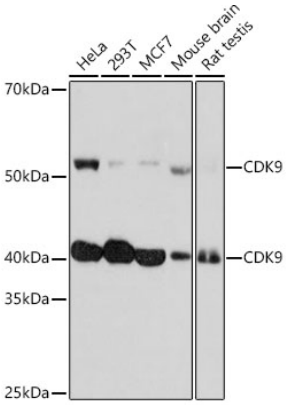
Validation Data



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.

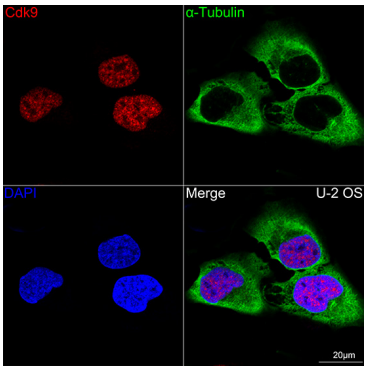


Western blot analysis of lysates from wild type(WT) and CDK9 knockout (KO) 293T cells, using [KO Validated] CDK9 Rabbit mAb (A11145) at 1:500 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk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

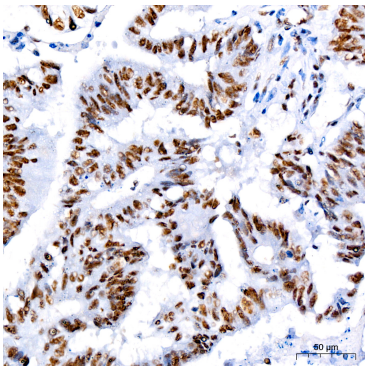


Western blot analysis of various lysates using CDK9 Rabbit mAb (A11145) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: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

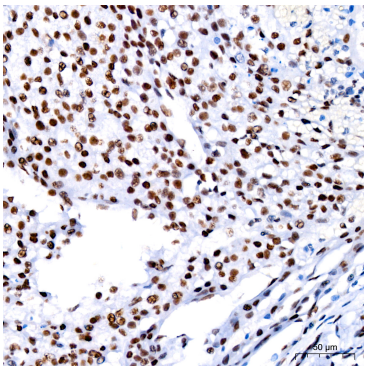
Validation Data



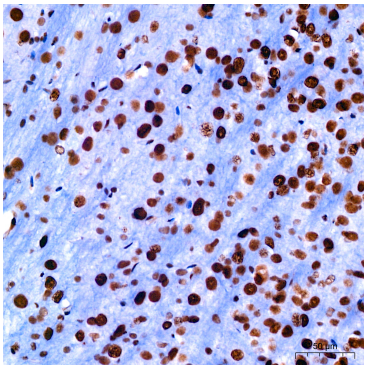
Confocal imaging of U-2 0S cells using [KO Validated] CDK9 Rabbit mAb (A11145,dilution 1:50)(Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 60x.



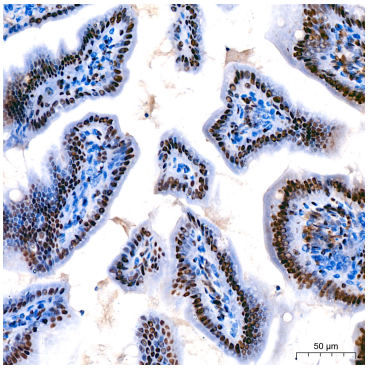
Immunohistochemistry analysis of CDK9 in paraffin-embedded human colon carcinoma using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



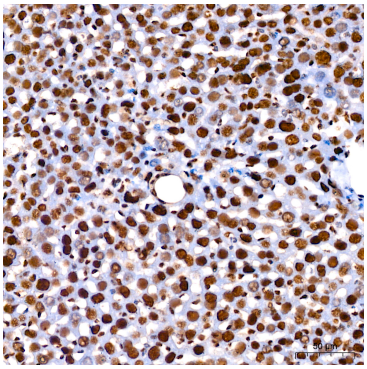
Immunohistochemistry analysis of CDK9 in paraffin-embedded human liver cancer using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



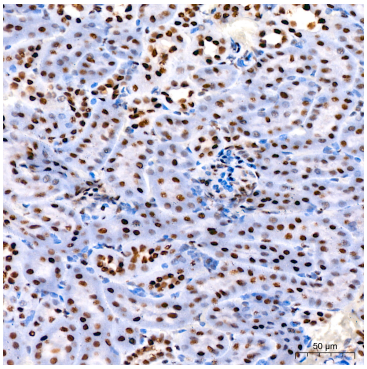
Immunohistochemistry analysis of CDK9 in paraffin-embedded mouse brain using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of CDK9 in paraffin-embedded mouse colon using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of CDK9 in paraffin-embedded mouse liver using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of CDK9 in paraffin-embedded rat kidney using [KO Validated] CDK9 Rabbit mAb (A11145) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.