

Datasheet for ABIN2792147
anti-CDK9 antibody (N-Term)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µL
Target:	CDK9
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Pig, Dog, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human CDK9
Sequence:	MAKQYDSVEC PFCDEVSKYE KLAKIGQGTF GEVFKARHRK TGQKVALKKV
Predicted Reactivity:	Cow: 92%, Dog: 100%, Human: 100%, Mouse: 92%, Pig: 92%, Rat: 92%, Zebrafish: 92%
Characteristics:	This is a rabbit polyclonal antibody against CDK9. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	CDK9
Alternative Name:	CDK9 (CDK9 Products)

Target Details

Background: CDK9 is the member of the cyclin-dependent kinase pair (CDK9/cyclin-T) complex, also called positive transcription elongation factor b (P-TEFb), which facilitates the transition from abortive to production elongation by phosphorylating the CTD (C-terminal domain) of the large subunit of RNA polymerase II (RNAP II), SUPT5H and RDBP. The CDK9/cyclin-K complex has also a kinase activity toward CTD of RNAP II and can substitute for P-TEFb in vitro. 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Alias Symbols: C-2k, CDC2L4, PITALRE, TAK, CTK1

Protein Interaction Partner: UBC, MEPCE, tat, LARP7, BRD4, CCNT1, ATM, SUMO2, AFF1, HEXIM1, FKBP5, RNF20, MSL2, RNF40, HIST2H2BE, POLR2A, MSL1, CDK9, SMC2, PLEC, CCAR2, SMC4, STIP1, MLLT3, MLLT1, CDK12, AFF4, FGFR1, CCNT2, AFF3, FBXO25, CUL1, SKIV2L, ATP1A1, SUPT5H, RPS4X, RN7SK, HEX

Protein Size: 372

Molecular Weight: 43 kDa

Gene ID: 1025

NCBI Accession: [NM_001261](#), [NP_001252](#)

UniProt: [P50750](#)

Pathways: [Cell Division Cycle](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

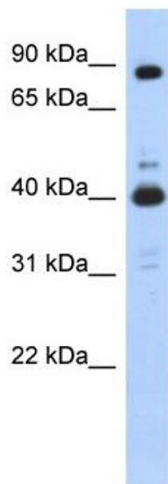
Comment: Antigen size: 372 AA

Restrictions: For Research Use only

Handling

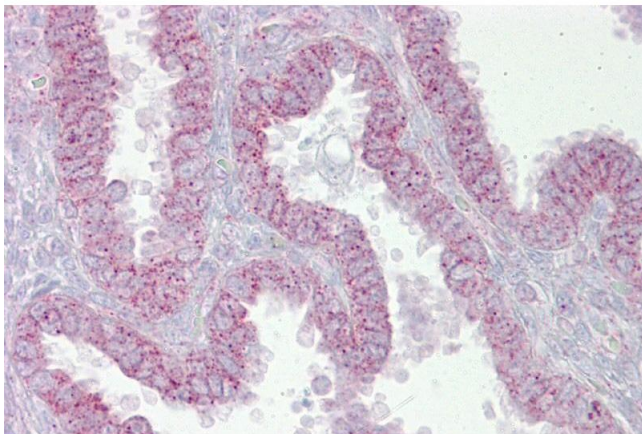
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-CDK9 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Transfected 293T



Immunohistochemistry

Image 2. Immunohistochemistry with Uterus tissue at an antibody concentration of 5µg/ml using anti-CDK9 antibody (AVARP03004_P050)