

Datasheet for ABIN2792148 anti-CDK9 antibody (N-Term)

1 Image



Overview

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)
Product Details	
Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human CDK9
Sequence:	PFCDEVSKYE KLAKIGQGTF GEVFKARHRK TGQKVALKKV LMENEKEGFP
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:	Protein A purified
Target Details	
Target Details Target:	CDK9

Background:

CDK9 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. 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.

Alias Symbols: RP11-228B15.5, 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, FBX025, 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

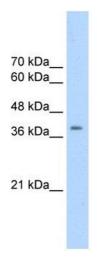
Application Details

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: 2.5 ug/ml Positive Control: Transfected 293T