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anti-CDK9 antibody (AA 231-372)



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Quantity:	100 μL
Target:	CDK9
Binding Specificity:	AA 231-372
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK9 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CDK9
Isotype:	IgG
Cross-Reactivity:	Human
Predicted Reactivity:	Mouse,Rat,Dog,Cow,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.
Target Details	

Larget Details

Alternative Name:	CDK9 (CDK9 Products)
Background:	Synonyms: TAK, C-2k, CTK1, CDC2L4, PITALRE, Cyclin-dependent kinase 9, Cell division cycle 2
	like protein kinase 4, Cell division protein kinase 9, Serine/threonine-protein kinase PITALRE,
	Tat-associated kinase complex catalytic subunit, CDK9
	Background: Protein kinase involved in the regulation of transcription. 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 productive elongation by
	phosphorylating the CTD (C-terminal domain) of the large subunit of RNA polymerase II (RNAP
	II) POLR2A, SUPT5H and RDBP. This complex is inactive when in the 7SK snRNP complex form
	Phosphorylates EP300, MYOD1, RPB1/POLR2A and AR, and the negative elongation factors
	DSIF and NELF. Regulates cytokine inducible transcription networks by facilitating promoter
	recognition of target transcription factors (e.g. TNF-inducible RELA/p65 activation and IL-6-
	inducible STAT3 signaling). Promotes RNA synthesis in genetic programs for cell growth,
	differentiation and viral pathogenesis. P-TEFb is also involved in cotranscriptional histone
	modification, mRNA processing and mRNA export. Modulates a complex network of chromatin
	modifications including histone H2B monoubiquitination (H2Bub1), H3 lysine 4 trimethylation
	(H3K4me3) and H3K36me3, integrates phosphorylation during transcription with chromatin
	modifications to control co-transcriptional histone mRNA processing. The CDK9/cyclin-K
	complex has also a kinase activity towards CTD of RNAP II and can substitute for CDK9/cyclin
	T P-TEFb in vitro. Replication stress response protein, the CDK9/cyclin-K complex is required
	for genome integrity maintenance, by promoting cell cycle recovery from replication arrest and
	limiting single-stranded DNA amount in response to replication stress, thus reducing the
	breakdown of stalled replication forks and avoiding DNA damage. In addition, probable function
	in DNA repair of isoform 2 via interaction with KU70/XRCC6. Promotes cardiac myocyte
	enlargement. RPB1/POLR2A phosphorylation on 'Ser-2' in CTD activates transcription. AR
	phosphorylation modulates AR transcription factor promoter selectivity and cell growth.
Gene ID:	1025
UniProt:	P50750
Pathways:	Cell Division Cycle
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400

Application Details

	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images

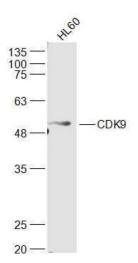


Image 1. Human HL-60 lysates probed with CDK9 Polyclonal Antibody, Unconjugated at 1:500 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.