

Datasheet for ABIN6260723 anti-CDK9 antibody (Internal Region)

4 Images



1 0

Overview

Quantity:	100 µL
Target:	CDK9
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK9 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human CDK9, corresponding to a region within the internal amino acids.
Isotype:	lgG
Specificity:	CDK9 Antibody detects endogenous levels of total CDK9.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Horse,Sheep,Dog,Chicken
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:	CDK9	
	Order at www.antibodies-online.com www.antikoerper-online.de www.anticorps-enligne.fr www.antibodies-online.cn International: +49 (0)241 95 163 153 USA & Canada: +1 877 302 8632 support@antibodies-online.com	

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Target Details	
Alternative Name:	CDK9 (CDK9 Products)
Background:	Description: 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. DSIF
	and NELF phosphorylation promotes transcription by inhibiting their negative effect. The
	phosphorylation of MYOD1 enhances its transcriptional activity and thus promotes muscle
	differentiation.
	Gene: CDK9
Molecular Weight:	43kDa
Gene ID:	1025
UniProt:	P50750
Pathways:	Cell Division Cycle

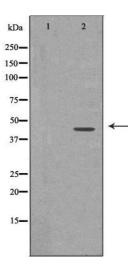
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN6260723 | 07/25/2024 | Copyright antibodies-online. All rights reserved.

Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

Handling

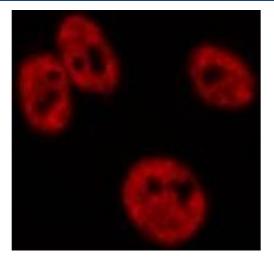
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

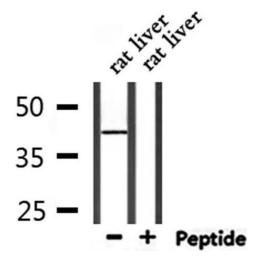
Images



Western Blotting

Image 1. Western blot analysis of Hela whole cell lysates, using CDK9 Antibody. The lane on the left is treated with the antigen-specific peptide.





Immunofluorescence (fixed cells)

Image 2. ABIN6276724 staining HepG2? cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25jaC. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37_{i} aC. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibod

Western Blotting

Image 3. Western blot analysis of extracts from rat liver, using CDK9 Antibody.

Please check the product details page for more images. Overall 4 images are available for ABIN6260723.