

Datasheet for ABIN684091 anti-CDK9 antibody (pThr186) (Cy3)



Overview	
Quantity:	100 μL
Target:	CDK9
Binding Specificity:	pThr186
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK9 antibody is conjugated to Cy3
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Flow Cytometry (FACS)
Product Details	
Immunogen:	KLH conjugated synthetic phosphopeptide derived from human CDK9 around the phosphorylation site of Thr186
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Dog,Cow,Pig,Horse,Chicken
Purification:	Purified by Protein A.
Target Details	
Target:	CDK9

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.
Gene ID:	1025
UniProt:	P50750
Pathways:	Cell Division Cycle
Application Dataila	
Application Details	
Application Notes:	FCM 1:20-100
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % 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:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months