

Datasheet for ABIN877624

anti-CDK9 antibody (pThr186) (AbBy Fluor® 350)



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Overview		
Quantity:	100 μL	
Target:	CDK9	
Binding Specificity:	pThr186	
Reactivity:	Human, Mouse	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This CDK9 antibody is conjugated to AbBy Fluor® 350	
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		
	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 Dataile		
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	