CDK9 (C12F7) F 502- te 502- te 50- te	Rabbit mAb				BISignaling CHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com
#			3 Trask L	ane Danvers Mas	ssachusetts 01923 USA
Applications: Reactive WB, IP, IHC-P, IF-IC, H M R Hm FC-FP, eCLIP Dg	vity: Sensitivity: n Mk B Endogenous	edures. MW (kDa): 42, 55	Source/Isotype: Rabbit	UniProt ID: #P50750	Entrez-Gene Id: 1025
Product Usage Information	Application Western Blotting Immunoprecipitation Immunohistochemistry Immunofluorescence (Flow Cytometry (Fixed eCLIP For more information Bioinnovations.	(Immunocytocher I/Permeabilized)	^{mistry}) and the RBP-eCLIP	1: 1: 1: 1: 1: 1:	ilution 1000 100 100 - 1:400 50 - 1:100 100 - 1:400 200 Clipse
Storage			7.5), 150 mM NaCl, 100 o not aliquot the antibody		cerol and less than
Specificity / Sensitivity	CDK9 (C12F7) Rabbit mAb detects endogenous levels of total C isoforms.			DK9 protein, both 42 kDa and 55 kDa	
Source / Purification	Monoclonal antibody is residues near the carbo		nunizing animals with a s uman CDK9.	synthetic peptide cor	responding to
Background	the C-terminal tail doma catalytic subunit, CDK9 in 1,2). P-TEFb is recru replication of the viral g exists as two isoforms, an amino-terminal exter expression during lymp dependent kinases (CD threonine in the T-loop kinase may be importar	ain (CTD) of RNA , and its regulator ited by the HIV T enome. Inhibition an abundant 42 nsion (3). The two hocyte activation DKS) are activated domain. Phosphont in P-TEFb activ	that regulates transcription A polymerase II (RNAP II) bry cyclin partner, which of at protein to allow transcon of P-TEFb function ther kDa isoform, and a less a to forms likely have distin a (4,5) and on their localiz d in part by cyclin binding porylation of CDK9 at the vation (6) and regulation phorylate the RNAPII CT). The P-TEFb comp can be cyclin T1, T2a riptional elongation, efore has potential f abundant 55 kDa isc ct purposes based c cation within the nuc and by phosphoryla T-loop Thr186 by an of HIV transcription	lex is composed of a a, T2b or K (reviewed and subsequent or HIV therapy. CDK9 oform, which contains on differential leus (5).Cyclin ation of a conserved unidentified nuclear
Background References	2. De Falco, G. and Gio 3. Shore, S.M. et al. (20 4. Shore, S.M. et al. (20	ordano, A. (2002) 203) <i>Gene</i> 307, 1 205) <i>Gene</i> 350, 5 n, C.H. (2005) J (2005) <i>Retrovirol</i> 2005) <i>Retrovirol</i>	i1-8. <i>Cell Physiol</i> 203, 251-60. '9, 4153-60. <i>ogy</i> 2, 47.	-7.	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				

1/1/24, 2:05 PM	CDK9 (C12F7) Rabbit mAb (#2316) Datasheet Without Images Cell Signaling Technology			
Applications Key	WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) eCLIP: eCLIP			
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected			
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