1/1/24, 1:55 PM Revision 1

Phospho-CDK9 (Thr186) Antibody				
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com		
တ္	Support:	877-678-TECH (8324)		
#2549	Web:	info@cellsignal.com cellsignal.com		
41	3 Trask Lane Danvers Ma	ssachusetts 01923 USA		
For Research Use Only. Not for Use in Diagnostic Procedures.				

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 42, 55	Source: Rabbit	UniProt ID: #P50750	Entrez-Gene Id: 1025	
Product Usage Information	•	Application Western Blotting		Dilution 1:1000			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BS 20°C. Do not aliquot the antibody.				lycerol. Store at –	
Specificity / Sensi					ndogenous levels of CDK9 only when phosphorylated at 2 kDa isoform and the less abundant 55 kDa isoform.		
Source / Purificati	to re	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr186 of human CDK9. Antibodies are purified using peptide affinity chromatography.					
Background	the cata in 1, repl exis an a expl Cyc cons unid	C-terminal tail doma alytic subunit, CDK9 (2). P-TEFb is recru- ication of the viral g ts as two isoforms, amino-terminal exter ression during lymp lin dependent kinas served threonine in lentified nuclear kina	ain (CTD) of RNA p , and its regulatory ited by the HIV Tat enome. Inhibition o an abundant 42 kD nsion (3). The two f hocyte activation (4 es (CDKs) are activ the T-loop domain. ase may be imported	olymerase II (RNAP cyclin partner, whic protein to allow tran f P-TEFb function th a isoform, and a les orms likely have dis 4,5) and on their loca vated in part by cycl Phosphorylation of ant in P-TEFb activa	ption elongation through PII). The P-TEFb comple h can be cyclin T1, T2a, scriptional elongation, a herefore has potential for s abundant 55 kDa isofo tinct purposes based on alization within the nucle in binding and by phospl CDK9 at the T-loop Thr1 tion (6) and regulation o rylate the RNAPII CTD (8	ix is composed of a T2b or K (reviewed nd subsequent HIV therapy. CDK9 orm, which contains differential us (5). horylation of a L86 by an f HIV transcription	
Background Refe	2. D 3. S 4. S 5. Li 6. C 7. A	ice, A.P. and Herrm e Falco, G. and Gio hore, S.M. et al. (20 hore, S.M. et al. (20 iu, H. and Herrmanr hen, R. et al. (2004 mmosova, T. et al. (u, J. et al. (2007) <i>M</i>	ordano, A. (2002) C. 003) Gene 307, 175 005) Gene 350, 51- 1, C.H. (2005) J Ce) J Biol Chem 279, (2005) Retrovirolog	ancer Biol Ther 1, 3 -82. 8. Il Physiol 203, 251-6 4153-60. y 2, 47.	42-7.		
Species Reactivity	y Spec	ies reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., we	estern blot).	
Western Blot Buff			rn blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, with gentle shaking, overnight.				
Applications Key	WB:	: Western Blotting					
Cross-Reactivity I	X : Xe		B: bovine Dg: dog	Pg: pig Sc: S. cere	s Mi: mink C: chicken D i evisiae Ce: C. elegans H	Ũ	

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