e at -20C	CDK7 Antibody	T E			
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com		
06		Support:	877-678-TECH (8324)		
#2090		Web:	info@cellsignal.com cellsignal.com		
#		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): 40	Source: Rabbit	UniProt ID: #P50613	Entrez-Gene Id: 1022			
Product Usage Information	•	plication estern Blotting			Dilution 1:1000				
Storage	Sup	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliguot the antibody.							
Specificity / Sens		CDK7 Antibody detects endogenous levels of total CDK7 protein.							
Source / Purificat	ami	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of human CDK7. Antibodies are purified using protein A and peptide affinity chromatography.							
Background	regu activ kina	CDK-activating kinase (CAK) is a complex of CDK7 and cyclin H. The complex is involved in cell cycle regulation by phosphorylating an activating residue in the T-loop domain of cdks (1). Regulation of CAK activity is mediated by T-loop phosphorylation and by association with MAT1, both of which enhance its kinase activity toward the CTD of RNA polymerase II (2,3) and other substrates such as p53 (4). CAK is an essential component of the transcription complex TFIIH and may interact directly with TFIIH helicases (5).							
Background Refe	2. La 3. Yi 4. K	isher, R.P. et al. (199 arochelle, S. et al. (2 ankulov, K.Y. et al. (2 o, L.J. et al. (1997) / ossignol, M. et al. (1	2001) EMBO J. 16, 1997) EMBO J. 16 Mol. Cell. Biol. 17,	3749-3759. , 1638-1646. 7220-7229.					
Species Reactivit	y Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).							
Western Blot Buff		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.							
Applications Key	WB	WB: Western Blotting							
Cross-Reactivity	X: X:	 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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