e at -20C	CDK7 (MO1) Mouse mAb		Cell Signaling	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IHC-P	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Mouse IgG2b	UniProt ID: #P50613	Entrez-Gene Id: 1022			
Product Usage Information	W	pplication /estern Blotting nmunoprecipitation nmunohistochemistry (l	Paraffin)		1	Dilution :2000 :200 :500			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.							
Specificity / Sensitivity		CDK7 (MO1) Mouse mAb detects endogenous levels of total CDK7 protein. The antibody does not cross- react with other CDKs.							
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant human CDK7. The epitope corresponds to a region surrounding Gln320 of human CDK7.							
Background		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. 3. ` 4.	Fisher, R.P. et al. (1994 Larochelle, S. et al. (20 Yankulov, K.Y. et al. (19 Ko, L.J. et al. (1997) <i>M</i> Rossignol, M. et al. (19	001) EMBO J. 1 997) EMBO J. 1 0l. Cell. Biol. 17	6, 3749-3759. .6, 1638-1646. 7, 7220-7229.					
Species Reactivity		ecies reactivity is deterr	mined by testing	g in at least one approve	ed application (e.g., we	estern blot).			
Western Blot Buf		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.							
Applications Key		WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)							
Cross-Reactivity	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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