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CDK7 (MO1) Mouse mAb

Applications: W, 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	2	ApplicationDilutionWestern Blotting1:2000Immunoprecipitation1:200Immunohistochemistry (Paraffin)1:500		2000 200				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	CDK7 (MO1) Mouse mAb detects endogenous levels of total CDK7 protein. The antibody does not cross- react with other CDKs.						
Source / Purifi	cation	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 Ro	eferences	1. Fisher, R.P. et al. (1994) <i>Cell</i> 78, 713-724. 2. Larochelle, S. et al. (2001) <i>EMBO J.</i> 16, 3749-3759. 3. Yankulov, K.Y. et al. (1997) <i>EMBO J.</i> 16, 1638-1646. 4. Ko, L.J. et al. (1997) <i>Mol. Cell. Biol.</i> 17, 7220-7229. 5. Rossignol, M. et al. (1997) <i>EMBO J.</i> 16, 1628-1637.						
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	Buffer	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 K	ey	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivi	ty Key	H: Human R: Rat						
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