e at -20C	CDK8 (P455) Antibody		
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com
)6		Support:	877-678-TECH (8324)
#4106		Web:	info@cellsignal.com cellsignal.com
#		3 Trask Lane Danvers N	assachusetts 01923 USA

For Research Use Only. Not for Use in Diagnostic Procedures.

	Activity: Sensitivity: A R Mk Endogenous	MW (kDa): 53	Source: Rabbit	UniProt ID: #P49336	Entrez-Gene Id: 1024		
Product Usage Information	Application Western Blotting			Dilution 1:1000			
Storage	Supplied in 10 mM sod 20°C. Do not aliquot the		5), 150 mM NaCl, 10	0 μg/ml BSA and 50% g	lycerol. Store at –		
Specificity / Sensitivity	CDK8 (P455) Antibody	CDK8 (P455) Antibody detects endogenous levels of total CDK8 protein.					
Source / Purification	-	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro455 of human CDK8. Antibodies are purified using protein A and peptide affinity chromatography.					
Background	The mammalian Media regulators to RNA polyr distinct Mediator subum Mediator complex inter dependent signaling (3 cells (6,7). CDK8/Cyclin C, along v thought to act as a mol Expression of CDK8 at High levels of CDK8 co proliferation can be inh CDK8 can phosphoryla inhibitors are being pur cancer types (12,13).	merase II (Pol II) an hits and transcription actions control vario), stem cell pluripote with Med12 and Mer ecular switch, inhibi progates E2F-1-dep hincide with high β-c ibited by suppressin the Ser727 on STAT	d the basal transcrip a factors allow for spe- bus biological proces ency and self renewa d13, constitute a sub ting Pol II recruitmer endent inhibition of p atenin-dependent tra g CDK8 expression 1, which reduces nat	tion machinery. Interact ecific gene regulation (re- ses, including insulin sig al (4,5), and proliferation incomplex within the Mec and transcription initia b-catenin activity in color anscription in colon cand (8). aural killer (NK) cell toxic	ions between eviewed in 1). gnaling (2), ΝF-κB- of colon cancer diator Complex tition (8,9). n cancer cells (9). cer cells, and their sity (10,11). As such,		
Background Reference	 Wang, W. et al. (2009) van Essen, D. et al. (4. Tutter, A.V. et al. (2005) Varelas, X. et al. (2006) Firestein, R. et al. (2007) Morris, E.J. et al. (2007) Knuesel, M.T. et al. (2007) Knuesel, M.T. et al. (2017) Bancerek, J. et al. (2011) Putz, E.M. et al. (2015) 	 Malik, S. and Roeder, R.G. (2005) <i>Trends Biochem Sci</i> 30, 256-63. Wang, W. et al. (2009) <i>Dev Cell</i> 16, 764-71. van Essen, D. et al. (2009) <i>PLoS Biol</i> 7, e73. Tutter, A.V. et al. (2009) <i>J Biol Chem</i> 284, 3709-18. Varelas, X. et al. (2008) <i>Nat Cell Biol</i> 10, 837-48. Firestein, R. et al. (2008) <i>Nature</i> 455, 547-51. Morris, E.J. et al. (2009) <i>Mol Cell Biol</i> 29, 650-61. Knuesel, M.T. et al. (2009) <i>Genes Dev</i> 23, 439-51. Bancerek, J. et al. (2013) <i>Immunity</i> 38, 250-62. Putz, E.M. et al. (2013) <i>Cell Rep</i> 4, 437-44. Dale, T. et al. (2015) <i>Nat Chem Biol</i> 11, 973-80. Rzymski, T. et al. (2017) <i>Oncotarget</i>, . 					
Species Reactivity	Species reactivity is det	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot Buffer	IMPORTANT: For weste 0.1% Tween® 20 at 4°C			d primary antibody in 5%	% w/v BSA, 1X TBS,		
Applications Key Cross-Reactivity Key	WB: Western Blotting						

1/1/24, 7:29 AM	CDK8 (P455) Antibody (#4106) Datasheet Without Images Cell Signaling Technology 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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