CDK8 (G398) Antibody



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Applications: W	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 53	Source/Isotype: Rabbit	UniProt ID: #P49336	Entrez-Gene Id: 1024
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		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 aliquot the antibody.				
Specificity/Sensitivity		CDK8 (G398) 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 Gly398 of human CDK8. Antibodies are purified using protein A and peptide affinity chromatography.				
The mammalian Mediator Complex is a multi-subunit protein complex that couples specific transcriptional regulators to RNA polymerase II (Pol II) and the basal transcription machinery. Interactions between distinct Mediator subunits and transcription factors allow for specific ge regulation (reviewed in 1). Mediator complex interactions control various biological processes, including insulin signaling κB-dependent signaling (3), stem cell pluripotency and self renewal (4,5), and proliferation of cancer cells (6,7). CDK8/Cyclin C, along with Med12 and Med13, constitute a subcomplex within the Mediator Cothought to act as a molecular switch, inhibiting Pol II recruitment and transcription initiation (Expression of CDK8 abrogates E2F-1-dependent inhibition of β-catenin activity in colon cancer High levels of CDK8 coincide with high β-catenin-dependent transcription in colon cancer cells their proliferation can be inhibited by suppressing CDK8 expression (8). CDK8 can phosphorylate Ser727 on STAT1, which reduces natural killer (NK) cell toxicity (10,11 inhibitors are being pursued as potential therapeutics to enhance NK cell activity and combat of cancer types (12,13).						rachinery. specific gene a signaling (2), NF- ration of colon ediator Complex initiation (8,9). on cancer cells (9). ancer cells, and city (10,11). As such,
Background Refe	erences	1. Malik, S. and Roeder, R.G. (2005) <i>Trends Biochem Sci</i> 30, 256-63. 2. Wang, W. et al. (2009) <i>Dev Cell</i> 16, 764-71. 3. van Essen, D. et al. (2009) <i>J Biol Chem</i> 284, 3709-18. 5. Varelas, X. et al. (2008) <i>Nat Cell Biol</i> 10, 837-48. 6. Firestein, R. et al. (2008) <i>Nature</i> 455, 547-51. 7. Morris, E.J. et al. (2008) <i>Nature</i> 455, 552-6. 8. Knuesel, M.T. et al. (2009) <i>Mol Cell Biol</i> 29, 650-61. 9. Knuesel, M.T. et al. (2009) <i>Genes Dev</i> 23, 439-51. 10. Bancerek, J. et al. (2013) <i>Immunity</i> 38, 250-62. 11. Putz, E.M. et al. (2013) <i>Cell Rep</i> 4, 437-44. 12. Dale, T. et al. (2015) <i>Nat Chem Biol</i> 11, 973-80. 13. Rzymski, T. et al. (2017) <i>Oncotarget</i> ,				
Species Reactivit	tv	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e ɑ	western blot)

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Western Blot Buffer 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 W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse Mk: Monkey

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