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## CDK10 (D8Z7Z) Rabbit mAb -20C #36106



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Applications: W	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 40	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #Q15131	Entrez-Gene Id: 8558		
Product Usage Information		Application Western Blotting			<b>Dilution</b> 1:1000			
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/Sens	cificity/Sensitivity CDK10 (D8Z7Z) Rabbit mAb recognizes endogenous levels of total CDK10 protein. This antibody expected to react with CDK10 N-terminal deletion isoforms.		s antibody is not					
Source / Purifica	ation	Monoclonal antibody is residues surrounding	s produced by imm /al24 of human CD	unizing animals with a sy K10 protein.	nthetic peptide co	rresponding to		
BackgroundCyclin Dependent Kinase 10 (CDK10) is a Cdc2-related protein kinase that binds to and inhibits transactivation activity of the transcription factor Ets2 (1). CDK10 is activated by cyclin M, which is mutated and unable to activate CDK10 in the human developmental disorder, STAR syndrome. Phosphorylation of Ets2 by CDK10/Cyclin M leads to degradation of Ets2 by the proteasome (2). CDK10 also plays a role in the development of the nervous system (3). Studies have shown that expression of CDK10, which is modulated by prof hypermethylation, is decreased in human cancer (4-6). Further, studies show that CDK10 expre breast cancer affects response to tamoxifen (7), and is correlated with disease progression (8) regulates the expression of c-RAF, and signaling through the MAPK pathway (2-3, 6-7).					d inhibits the human leads to nt of the zebrafish d by promoter K10 expression in ession (8). CDK10 ).			
Background Ref	erences	<ol> <li>Kasten, M. and Giordano, A. (2001) Oncogene 20, 1832-8.</li> <li>Guen, V.J. et al. (2013) Proc Natl Acad Sci U S A 110, 19525-30.</li> <li>Yeh, C.W. et al. (2013) J Biol Chem 288, 27927-39.</li> <li>You, Y. et al. (2013) Cell Oncol (Dordr) 36, 323-31.</li> <li>Zhong, X.Y. et al. (2012) Gene 498, 68-74.</li> <li>Yu, J.H. et al. (2012) Oncol Rep 27, 1266-76.</li> <li>Iorns, E. et al. (2008) Cancer Cell 13, 91-104.</li> <li>You, Y. et al. (2015) Cell Oncol (Dordr) 38, 485-91.</li> </ol>						
Species Reactivi	ty	Species reactivity is de	termined by testing	g in at least one approved	application (e.g., v	western blot).		
Western Blot Bu	ıffer	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	y	W: Western Blotting						
Cross-Reactivity	Кеу	H: Human M: Mouse R: Rat						
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