Carriagliaghus

06 Store at -20C

A

CDK10 (D8Z7Z) Rabbit mAb



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Compiting

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit IgG	UniProt ID: #Q15131	Entrez-Gene Id: 8558	
Product Usage Information	Ар	olication		Dilution			
	We	stern Blotting		1:1000			
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		CDK10 (D8Z7Z) Rabbit mAb recognizes endogenous levels of total CDK10 protein. This antibody is not expected to react with CDK10 N-terminal deletion isoforms.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val24 of human CDK10 protein.					
Background	trans CDk deve degr nerv hype brea	Cyclin Dependent Kinase 10 (CDK10) is a Cdc2-related protein kinase that binds to and inhibits the 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 zebrafish nervous system (3). Studies have shown that expression of CDK10, which is modulated by promoter hypermethylation, is decreased in human cancer (4-6). Further, studies show that CDK10 expression in breast cancer affects response to tamoxifen (7), and is correlated with disease progression (8). CDK10 regulates the expression of c-RAF, and signaling through the MAPK pathway (2-3, 6-7).					
Background Refer	 Kasten, M. and Giordano, A. (2001) Oncogene 20, 1832-8. Guen, V.J. et al. (2013) Proc Natl Acad Sci U S A 110, 19525-30. Yeh, C.W. et al. (2013) J Biol Chem 288, 27927-39. You, Y. et al. (2013) Cell Oncol (Dordr) 36, 323-31. Zhong, X.Y. et al. (2012) Gene 498, 68-74. Yu, J.H. et al. (2012) Oncol Rep 27, 1266-76. Iorns, E. et al. (2008) Cancer Cell 13, 91-104. You, Y. et al. (2015) Cell Oncol (Dordr) 38, 485-91. 						

MANA (LDs).

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

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

WB: Western Blotting

Cross-Reactivity Key

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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