## <sup>δ</sup> Choline Kinase α (D5X9W) Rabbit mAb





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Applications: W, IP	Reactivity: H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 50	Source/Isotype: Rabbit IgG	UniProt ID: #P35790	Entrez-Gene Id: 1119		
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100			
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	itivity	Choline Kinase $\alpha$ (D5X9W) Rabbit mAb recognizes endogenous levels of total choline kinase $\alpha$ protein. Based on the antigen sequence, this antibody is not expected to recognize choline kinase $\beta$ .						
Source / Purifica	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro85 of human choline kinase $\alpha$ protein.						
Background		Choline kinase (ChoK) $\alpha$ membrane phospholip $\alpha$ -1, $\alpha$ -2, and $\beta$ . The two the $\beta$ isoform resides $\alpha$	atalyzes the phosphorylation of choline, a key step in the biosynthesis of the d phosphatidylcholine. At least three ChoK isoforms exist in mammalian cells, o a isoforms are transcribed from the same <i>CHKA</i> gene as splice variants, while n a separate <i>CHKB</i> gene (reviewed in 1).					
		Research studies indicate that ChoKα levels affect signaling through MAPK and Akt pathways (2,3). Investigators have shown that ChoKα plays a role in proliferation and carcinogenesis and is highly expressed/activated in human cancers (4-7). Additional research studies suggest ChoKα may be a potential target for cancer therapy (8).						
Background Ref	ferences	<ol> <li>Janardhan, S. et al. (2006) <i>Curr Med Chem</i> 13, 1169-86.</li> <li>Yalcin, A. et al. (2010) <i>Oncogene</i> 29, 139-49.</li> <li>Chua, B.T. et al. (2009) <i>Mol Cancer</i> 8, 131.</li> <li>Ramírez de Molina, A. et al. (2002) <i>Oncogene</i> 21, 4317-22.</li> <li>Ramírez de Molina, A. et al. (2007) <i>Lancet Oncol</i> 8, 889-97.</li> <li>Hernando, E. et al. (2009) <i>Oncogene</i> 28, 2425-35.</li> <li>Miyake, T. and Parsons, S.J. (2012) <i>Oncogene</i> 31, 1431-41.</li> <li>Bañez-Coronel, M. et al. (2008) <i>Curr Cancer Drug Targets</i> 8, 709-19.</li> </ol>						
Species Reactiv	ity	Species reactivity is de	termined by testin	g in at least one approve	d application (e.g.,	western blot).		
Western Blot Bı	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 Ke	у	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity	v Key	H: Human Mk: Monkey						
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