-22 Store at -200

Choline Kinase α (D5X9W) Rabbit



Orders:

877-616-CELL (2355) orders@cellsignal.com

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Web:

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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: WB, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #P35790	Entrez-Gene Id: 1119	
Product Usage Information	Ap	Application		Dilution			
	We	estern Blotting			1:1000		
	Im	munoprecipitation		1:100			
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		Choline Kinase α (D5X9W) Rabbit mAb recognizes endogenous levels of total choline kinase α protein. Based on the antigen sequence, this antibody is not expected to recognize choline kinase β .					
Source / Purification Monoclonal antibody is produced by immunizing animals with a synth residues surrounding Pro85 of human choline kinase α protein.				synthetic peptide corre	esponding to		
Background	mer α-2,	Choline kinase (ChoK) catalyzes the phosphorylation of choline, a key step in the biosynthesis of the membrane phospholipid phosphatidylcholine. At least three ChoK isoforms exist in mammalian cells, α -1, α -2, and β . The two α isoforms are transcribed from the same <i>CHKA</i> gene as splice variants, while the β isoform resides on a separate <i>CHKB</i> gene (reviewed in 1).					
	Inve exp	Research studies indicate that ChoK α levels affect signaling through MAPK and Akt pathways (2,3). Investigators have shown that ChoK α plays a role in proliferation and carcinogenesis and is highly expressed/activated in human cancers (4-7). Additional research studies suggest ChoK α may be a potential target for cancer therapy (8).					
Background Refere	1. Janardhan, S. et al. (2006) <i>Curr Med Chem</i> 13, 1169-86. 2. Yalcin, A. et al. (2010) <i>Oncogene</i> 29, 139-49. 3. Chua, B.T. et al. (2009) <i>Mol Cancer</i> 8, 131. 4. Ramírez de Molina, A. et al. (2002) <i>Oncogene</i> 21, 4317-22. 5. Ramírez de Molina, A. et al. (2007) <i>Lancet Oncol</i> 8, 889-97. 6. Hernando, E. et al. (2009) <i>Oncogene</i> 28, 2425-35. 7. Miyake, T. and Parsons, S.J. (2012) <i>Oncogene</i> 31, 1431-41. 8. Bañez-Coronel, M. et al. (2008) <i>Curr Cancer Drug Targets</i> 8, 709-19.						

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.

WB: Western Blotting IP: Immunoprecipitation **Applications Key**

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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Choline Kinase α (D5X9W) Rabbit mAb (#13422) Datasheet Without Images Cell Signaling Technology writing by a legally authorized representative of CST, are rejected and are of no force or effect.

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