

Choline Kinase α (D5X9W) Rabbit mAb



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| Applications: W, IP | Reactivity: H Mk | Sensitivity: Endogenous | MW (kDa): 50 | Source/Isotype: Rabbit IgG | UniProt ID: #P35790 | Entrez-Gene Id: 1119 |
|-------------------------------|---------------------|--|------------------------|--------------------------------------|------------------------------|-------------------------|
| Product Usage Information | | Application Western Blotting Immunoprecipitation | | | Dilution 1:1000 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 synthetic peptide corresponding to residues surrounding Pro85 of human choline kinase α protein. | | | | |
| Background | | 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). 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 ChoKα may be a potential target for cancer therapy (8). | | | | |
| Background References | | 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.

Applications Key W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

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H: Human Mk: Monkey

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