| CCTα Antibody | | Cell Signaling TECHNOLOGY® | |
|---------------|-----------------------------|--|--|
| Store at | Orders: | 877-616-CELL (2355) orders@cellsignal.com | |
| 4 | Support: | 877-678-TECH (8324) | |
| #4454 | Web: | info@cellsignal.com cellsignal.com | |
| # | 3 Trask Lane Danvers Ma | ssachusetts 01923 USA | |

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

| •• | Ctivity: Sensitivity: H Endogenous | MW (kDa): 42 | Source: Rabbit | UniProt ID: #P49585 | Entrez-Gene Id: 5130 | | |
|------------------------------|---|---|-------------------|-----------------------------------|-------------------------|--|--|
| Product Usage Information | Application Western Blotting Immunoprecipitation | | | Dilution 1:1000 1:50 | | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody. | | | | | |
| Specificity / Sensitivity | CCTa Antibody detects | CCTa Antibody detects endogenous levels of total CCTa protein. | | | | | |
| Source / Purification | residues near the amine | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human CCT α protein. Antibodies were purified by protein A and peptide affinity chromatography. | | | | | |
| Background | pathway for the biosynt including CCTα, CCTβ2 CCTα is essential in the maintaining the phosph (4,5). CCTα is a major of macrophages (6). Mono | CTP:phosphocholine cytidylyltransferase (CCT) is a critical enzyme that regulates the CDP-choline pathway for the biosynthesis of phosphatidylcholine. Three distinct CCT isoforms are found in mammals, including CCT α , CCT β 2, and CCT β 3 (1,2). CCT α is the major isoform that is expressed in most tissues (3). CCT α is essential in the synthesis and secretion of surfactant by alveolar epithelial cells and is important in maintaining the phosphatidylcholine level that regulates lipoprotein assembly and secretion in hepatocytes (4,5). CCT α is a major component in membrane biogenesis during cytokine secretion by stimulated macrophages (6). Monoubiquitination of CCT α prevents it from entering the nucleus and leads to its degradation by lysosome (7). | | | | | |
| Background References | Jackowski, S. and Fagone, P. (2005) <i>J Biol Chem</i> 280, 853-6. Clement, J.M. and Kent, C. (1999) <i>Biochem Biophys Res Commun</i> 257, 643-50. Karim, M. et al. (2003) <i>Biochim Biophys Acta</i> 1633, 1-12. Tian, Y. et al. (2007) <i>Mol Cell Biol</i> 27, 975-82. Jacobs, R.L. et al. (2004) <i>J Biol Chem</i> 279, 47402-10. Tian, Y. et al. (2008) <i>J Cell Biol</i> 181, 945-57. Chen, B.B. and Mallampalli, R.K. (2009) <i>Mol Cell Biol</i> 29, 3062-75. | | | | | | |
| Species Reactivity | Species reactivity is dete | 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 I | WB: Western Blotting IP: Immunoprecipitation | | | | | |
| Cross-Reactivity Key | X: Xenopus Z: zebrafish | 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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