Store at -20C

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CCTα (D18B6) Rabbit mAb CCTα (D18B6) Rabbit mAb Support: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com

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

Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 42	Source/Isotype: Rabbit IgG	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, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		CCT α (D18B6) Rabbit mAb recognizes endogenous levels of total CCT α protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CCT α protein.				
Background		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		1. Jackowski, S. and Fagone, P. (2005) <i>J Biol Chem</i> 280, 853-6. 2. Clement, J.M. and Kent, C. (1999) <i>Biochem Biophys Res Commun</i> 257, 643-50. 3. Karim, M. et al. (2003) <i>Biochim Biophys Acta</i> 1633, 1-12. 4. Tian, Y. et al. (2007) <i>Mol Cell Biol</i> 27, 975-82. 5. Jacobs, R.L. et al. (2004) <i>J Biol Chem</i> 279, 47402-10. 6. Tian, Y. et al. (2008) <i>J Cell Biol</i> 181, 945-57. 7. Chen, B.B. and Mallampalli, R.K. (2009) <i>Mol Cell Biol</i> 29, 3062-75.				
Species Reacti	vity	Species reactivity is det	ermined by testin	g in at least one approve	ed 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		H: Human M: Mouse R: Rat Mk: Monkey				
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