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**Patents** 

## CCTα (D18B6) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 42	Source/Isotype: Rabbit IgG	UniProt ID: #P49585	Entrez-Gene Id 5130	
Product Usage Information	Application			Dilution			
	We	stern Blotting			1:1000		
	Imr	Immunoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.					
Specificity / Sens	sitivity CC1	CCT $\alpha$ (D18B6) Rabbit mAb recognizes endogenous levels of total CCT $\alpha$ protein.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human $CCT\alpha$ protein.					
Background	path inclu CCT mair (4,5) mac	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 $\alpha$ , CCT $\beta$ 2, and CCT $\beta$ 3 (1,2). CCT $\alpha$ is the major isoform that is expressed in most tissues (3). CCT $\alpha$ 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 $\alpha$ is a major component in membrane biogenesis during cytokine secretion by stimulated macrophages (6). Monoubiquitination of CCT $\alpha$ prevents it from entering the nucleus and leads to its degradation by lysosome (7).					
Background Refe	2. C 3. K 4. Ti 5. Ja	<ol> <li>Jackowski, S. and Fagone, P. (2005) J Biol Chem 280, 853-6.</li> <li>Clement, J.M. and Kent, C. (1999) Biochem Biophys Res Comn</li> <li>Karim, M. et al. (2003) Biochim Biophys Acta 1633, 1-12.</li> <li>Tian, Y. et al. (2007) Mol Cell Biol 27, 975-82.</li> <li>Jacobs, R.L. et al. (2004) J Biol Chem 279, 47402-10.</li> <li>Tian, Y. et al. (2008) J Cell Biol 181, 945-57.</li> </ol>					

**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,

7. Chen, B.B. and Mallampalli, R.K. (2009) Mol Cell Biol 29, 3062-75.

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IP: Immunoprecipitation

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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