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Acetyl-CoA Carboxylase (C83B10) Rabbit mAb (PE Conjugate)

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

Applications: FC-FP	Reactivity: H M R Hm	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q13085, #O00763	Entrez-Gene Id: 31, 32
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Product Usage Information	Application	Dilution
	Flow Cytometry (Fixed/Permeabilized)	1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.	
Specificity/Sensitivity	Acetyl-CoA Carboxylase (C83B10) Rabbit mAb (PE Conjugate) detects endogenous levels of all isoforms of acetyl-CoA carboxylase protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser523 of human acetyl-CoA carboxylase α 1.	
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Acetyl-CoA Carboxylase (C83B10) Rabbit mAb #3676.	
Background	Acetyl-CoA carboxylase (ACC) catalyzes the carboxylation of acetyl-CoA to malonyl-CoA (1). It is the key enzyme in the biosynthesis and oxidation of fatty acids (1). In rodents, the 265 kDa ACC1 (ACC α) form is primarily expressed in lipogenic tissues, while 280 kDa ACC2 (ACC β) is the main isoform in oxidative tissues (1,2). However, in humans, ACC2 is the predominant isoform in both lipogenic and oxidative tissues (1,2). Phosphorylation by AMPK at Ser79 or by PKA at Ser1200 inhibits the enzymatic activity of ACC (3). ACC is a potential target of anti-obesity drugs (4,5).	
Background References	<ol style="list-style-type: none"> 1. Castle, J.C. et al. (2009) <i>PLoS One</i> 4, e4369. 2. Kreuz, S. et al. (2009) <i>Diabetes Metab Res Rev</i> 25, 577-86. 3. Ha, J. et al. (1994) <i>J Biol Chem</i> 269, 22162-8. 4. Abu-Elheiga, L. et al. (2001) <i>Science</i> 291, 2613-6. 5. Levert, K.L. et al. (2002) <i>J Biol Chem</i> 277, 16347-50. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human M: Mouse R: Rat Hm: Hamster
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