## Acetyl-CoA Carboxylase 1 Antibody





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Applications: W, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 265	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q13085	Entrez-Gene Id: 31		
Product Usage Information	2	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50			
Supplied in 10 mM s 20°C. Do not aliquot			odium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – the antibody.					
Specificity/Sensitivity		Acetyl-CoA Carboxylase 1 Antibody detects endogenous levels of total acetyl-CoA carboxylase 1 protein and does not cross-react with acetyl-CoA carboxylase 2. Immunofluorescence data indicate that the antibody is more reactive to rodent than human proteins.						
<b>Source / Purification</b> Polyclonal antibodies are produced by immunizing animals with a synt residues near the carboxy terminus of human acetyl-CoA carboxylase by protein A and peptide affinity chromatography.								
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 $\alpha$ ) form is primarily expressed in lipogenic tissues, while 280 kDa ACC2 (ACC $\beta$ ) 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 R	eferences	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 Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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 K	ley	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat						
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