Vorticity Acetyl-CoA Carboxylase (C83B10) Rabbit mAb 9202 9202



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Applications: W, W-S, IP, IHC-P, IF-IC, FC-FP	Reactivity: H M R Hm	Sensitivity: Endogenous	MW (kDa): 280	Source/Isotype: Rabbit IgG	UniProt ID: #Q13085, #O00763	Entrez-Gene Id: 31, 32
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)			Dilution 1:1000 1:10 - 1:50 1:100 1:50 - 1:200 1:100 - 1:200 1:200 - 1:800	
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. For a carrier free (BSA and azide free) version of this product see product #52923.				
Specificity/Sensitivity		Acetyl-CoA Carboxylase (C83B10) Rabbit mAb 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 $\alpha 1$.				
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		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. 6. Fullerton, M.D. et al. (2013) <i>Nat Med</i> 19, 1649-54.				
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 ar TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				5% w/v BSA, 1X
Applications Key		W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Hm: Hamster				
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