#8578 Store at -20C

Acetyl-CoA Carboxylase 2 (D5B9) Rabbit mAb



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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 280	Source/Isotype: Rabbit IgG	UniProt ID: #O00763	Entrez-Gene Id: 32	
Product Usage Information	Ap	plication			Dilution		
	We	estern Blotting		1:1000			
	Imi	munoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitiv	,	Acetyl-CoA Carboxylase 2 (D5B9) Rabbit mAb recognizes endogenous levels of total acetyl-CoA carboxylase 2 protein and does not cross-react acetyl-CoA carboxylase 1.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val1400 of human acetyl-CoA carboxylase 2 protein.					
Background	enz prin tissi tissi	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 (ACCα) form is primarily expressed in lipogenic tissues, while 280 kDa ACC2 (ACCβ) 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 Refere	References 1. Castle, J.C. et al. (2009) PLoS One 4, e4369. 2. Kreuz, S. et al. (2009) Diabetes Metab Res Rev 25, 577-86. 3. Ha, J. et al. (1994) J Biol Chem 269, 22162-8. 4. Abu-Elheiga, L. et al. (2001) Science 291, 2613-6. 5. Levert, K.L. et al. (2002) J Biol Chem 277, 16347-50.						

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, 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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