Acetyl-CoA Carboxylase (C83B10) Rabbit mAb



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Applications: WB, 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	Αŗ	plication		Dilution			
	W	estern Blotting		1:1000			
	Siı	mple Western™		1:10 - 1:50			
	Im	munoprecipitation		1:100			
	Im	munohistochemistry	(Paraffin)	1:50 - 1:200			
	Im	munofluorescence (Immunocytochen	1:100 - 1:200			
	Flo	ow Cytometry (Fixed	//Permeabilized)	1:200 - 1:800			
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.					
	For	For a carrier free (BSA and azide free) version of this product see product #52923.					
Specificity / Sensit	Acetyl-CoA Carboxylase (C83B10) Rabbit mAb detects endo carboxylase protein.				enous levels of all isoform	s of acetyl-CoA	
Source / Purification	• • •	noclonal antibody is dues surrounding S		a synthetic peptide corres e α1.	ponding to		
Background	enz prir tiss tiss	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 Refer	2. k 3. h 4. <i>A</i> 5. L	 Castle, J.C. et al. (2009) PLoS One 4, e4369. Kreuz, S. et al. (2009) Diabetes Metab Res Rev 25, 577-86. Ha, J. et al. (1994) J Biol Chem 269, 22162-8. Abu-Elheiga, L. et al. (2001) Science 291, 2613-6. Levert, K.L. et al. (2002) J Biol Chem 277, 16347-50. Fullerton, M.D. et al. (2013) Nat Med 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 antibody in 5% w/v BSA, 1X TBS,

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

Applications Key WB: 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 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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