Store at -20C

3661

Phospho-Acetyl-CoA Carboxylase (Ser79) Antibody Orders: 877-616-CELL (2355) orders@cellsignal.com

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

Applications: WB, IP, IHC-P	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 280	Source: Rabbit	UniProt ID: #Q13085, #O00763	Entrez-Gene Id: 31, 32
Product Usage Information	W	pplication /estern Blotting nmunoprecipitation nmunohistochemistry (Paraffin)		Dilu 1:10 1:10 1:80	00
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		Phospho-Acetyl-CoA Carboxylase (Ser79) Antibody detects endogenous levels of ACC only when phosphorylated at serine 79. The antibody recognizes both ACCalpha and ACCbeta.				
Species predicted react based on 100 sequence homolog	0%	iicken, Bovine				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser79 of rat ACC. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	en: pri 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. 3. 4. / 5. 6.	Castle, J.C. et al. (2009 Kreuz, S. et al. (2009) Ha, J. et al. (1994) <i>J B.</i> Abu-Elheiga, L. et al. (2002) Levert, K.L. et al. (2002) Hadad, S.M. et al. (2002) Fullerton, M.D. et al. (2003)	Diabetes Metab R iol Chem 269, 221 2001) Science 29: 2) J Biol Chem 27 99) BMC Cancer 9	es Rev 25, 577-86 .62-8. I, 2613-6. 7, 16347-50. I, 307.	ô.	
Species Reactivity	spe	ecies reactivity is deter	mined by testing in	n at least one appr	roved application (e.g., west	ern blot).
Western Blot Buffe		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 IHC-P: Immunohistochemistry (Paraffin)				
Cross-Reactivity k	X: >	 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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