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#11818

Phospho-Acetyl-CoA Carboxylase (Ser79) (D7D11) Rabbit mAb

100 µl (10 western blots)

Support: 877-678-TECH (8324) info@cellsignal.com

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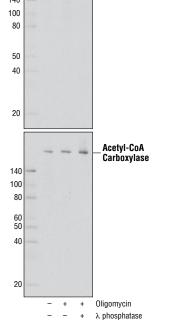
rev. 06/09/14

Entrez-Gene ID #31, 32 UniProt ID #Q13085, 000763

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype	Storage: Supplied in 10 mM sodium HEPI	u <i>y</i> ,
W, IP, IHC-P, IF-IC Endogenous	Н, М	280 kDa Rabbit IgG**		mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. <i>Do not aliquot the antibody.</i>	
-				*Species cross-reactivity is determined by western blot.	
Background: Acetyl-CoA carboxylase (ACC) catalyzes the carboxylation of acetyl-CoA to malonyl-CoA (1). It is the key				**Anti-rabbit secondary antibodies must be used to detect this antibody.	
enzyme in the biosynthesis and oxidation of fatty acids (1). In		Phospho-Acetyl-CoA Carboxylase (Ser79)		Recommended Antibody Dilutions:	
rodents, the 265 kDa ACC1 (ACC α) form	n is primarily expressed 140		,	Western blotting	1:1000
in lipogenic tissues, while 280 kDa ACC2				Immunoprecipitation	1:50
isoform in oxidative tissues (1,2). Howev	er, in humans, ACC2 is 80	ine in the second se		Immunohistochemistry (Paraffin)	1:400†
the predominant isoform in both lipogeni	ic and oxidative tissues			Unmasking buffer:	Citrate
(1,2). Phosphorylation by AMPK at Ser79 or by PKA at Ser1200 50				Antibody diluent: SignalStain® Antibo	dy Diluent #8112
inhibits the enzymatic activity of ACC (3)	ACC is a notential			Detection reagent: SignalStain® Boost (HF	Reabbit) #8114
target of anti-obesity drugs (4,5).	40			<i>†Optimal IHC dilutions determined using S</i>	ignalStain® Boost
Specificity/Constitution December Acet	ul CoA Corbourdooo			IHC Detection Reagent.	
Specificity/Sensitivity: Phospho-Acet (Ser79) (D7D11) Rabbit mAb recognizes	and an an and laws laws laws			Immunofluorescence (IF-IC)	1:250
acetyl-CoA carboxylase protein only whe	5 20			Background References:	
Ser79.				(1) Castle, J.C. et al. (2009) <i>PLoS One</i> 4, e4	4369.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser79 of human acetyl-CoA carboxylase protein.



Western blot analysis of extracts from SH-SY5Y cells, untreated or treated with Oligomycin #9996 (0.5 µM, 30 min), using Phospho-Acetyl-CoA Carboxylase (Ser79) (D7D11) Rabbit mAb (upper) or Acetyl-CoA Carboxylase (C83B10) Rabbit mAb #3676 (lower). The phospho-specificity of the antibody was verified by λ phosphatase treatment.

Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 AII—all species expected Species enclosed in parentheses are predicted to react based on 100% homology

Immunohistochemical analysis of paraffin-embedded human breast carcinoma using Phospho-Acetyl-CoA Carboxylase (Ser79) (D7D11) Rabbit mAb.

> DRAQ5® is a registered trademark of Biostatus Limited. Tween® is a registered trademark of ICI Americas, Inc.

(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.

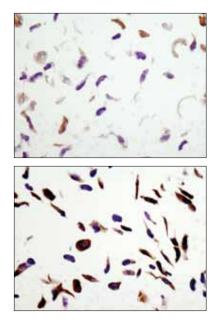
(2) Kreuz, S. et al. (2009) Diabetes Metab Res Rev 25, 577-86.

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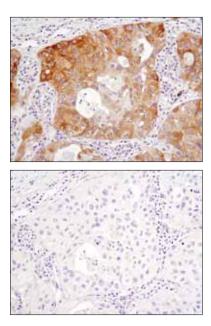
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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

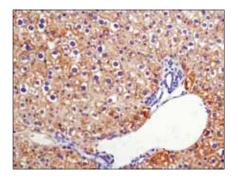
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Immunohistochemical analysis of paraffin-embedded NCI-H2228 cell pellets, untreated (upper) or phenformin-treated (lower), using Phospho-AcetyI-CoA Carboxylase (Ser79) (D7D11) Rabbit mAb.



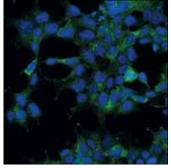
Immunohistochemical analysis of paraffin-embedded human lung carcinoma, untreated (upper) or λ phosphatase-treated (lower), using Phospho-Acetyl-CoA Carboxylase (Ser79) (D7D11) Rabbit mAb.



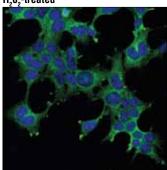
Immunohistochemical analysis of paraffin-embedded mouse liver using Phospho-Acetyl-CoA Carboxylase (Ser79) (D7D11) Rabbit mAb.

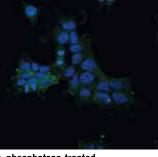


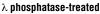
Serum-treated

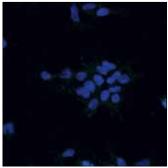


H₂O₂-treated









Confocal immunofluorescent analysis of 293 cells (all nutrient-starved with Krebs-Ringer bicarbonate buffer for 4 hr), starved only (upper left), serum-treated (10%, 30 min; upper right), H_2O_2 -treated (10 mM, 10 min; lower left), or λ phosphatase-treated (2 hr; lower right), using Phospho-Acetyl-CoA Carboxylase (Ser79) (D7D11) Rabbit mAb (green). Blue pseudocolor = DRAQ5[®] #4084 (fluorescent DNA dye).

