

Acetyl-CoA Carboxylase 1 Antibody



Orders ■ 877-616-CELL (2355)
orders@cellsignal.com

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

Web ■ www.cellsignal.com

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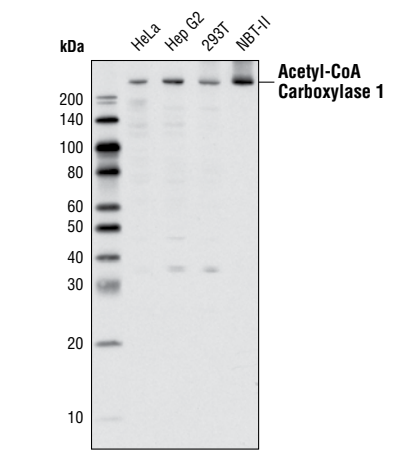
For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP Endogenous	H, M, R	265 kDa	Rabbit**

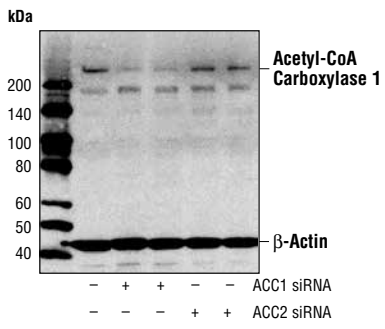
Background: Acetyl-CoA carboxylase (ACC) catalyzes the pivotal step of the fatty acid synthesis pathway. The 265 kDa ACC α (ACC1) is the predominant isoform found in liver, adipocytes and mammary gland, while the 280 kDa ACC β (ACC2) is the major isoform in skeletal muscle and heart (1). Phosphorylation by AMPK at Ser79 or by PKA at Ser1200 inhibits the enzymatic activity of ACC (2). ACC is a potential target of anti-obesity drugs (3,4).

Specificity/Sensitivity: Acetyl-CoA Carboxylase 1 Antibody detects endogenous levels of total acetyl-CoA carboxylase 1 protein and does not cross-react with acetyl-CoA carboxylase 2. Immunofluorescence data indicate that the antibody is more reactive to rodent than human proteins.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human acetyl-CoA carboxylase 1 protein. Antibodies are purified by protein A and peptide affinity chromatography.



Western blot analysis of extracts from various cell types using Acetyl-CoA Carboxylase 1 Antibody.



Western blot analysis of extracts from HeLa cells 48 hours after transfection with Signal Silence[®] ACC1 siRNA or ACC2 siRNA using Acetyl-CoA Carboxylase 1 Antibody and β -Actin (13E5) Rabbit mAb #4970

Entrez-Gene ID # 31
UniProt ID #Q13085

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.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:50

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

Background References:

- (1) Ruderman, N.B. et al. (1999) *Am. J. Physiol.* 276, E1-E18.
- (2) Ha, J. et al. (1994) *J. Biol. Chem.* 269, 22162-22168.
- (3) Abu-Elheiga, L. et al. (2001) *Science* 291, 2613-2616.
- (4) Levert, K.L. et al. (2002) *J. Biol. Chem.* 277, 16347-16350.

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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