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Phospho-ACACA-S79

Reactivity: Human

Tested applications:WB ICC

Recommended Dilution:WB 1:500 - 1:2000 ICC 1:50 - 1:200

Calculated MW:280kDa

Observed MW: Refer to Figures

Immunogen:

A phospho specific peptide corresponding to residues surrounding S79 of human ACC1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

ACACA; ACAC; ACACAD; ACC; ACC1; ACCA; Biotin carboxylase; ACC-alpha;

Catalog #:AP0111

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:31

Isotype: IgG

Swiss Prot:Q13085

Purity: Affinity purification

For research use only.

Background:

CC) 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) form is primarily expressed in lipogenic tissues, while 280 kDa ACC2 (ACC) 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).

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