

Anti-ACACA Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Molecular Weight:	Theoretical: 266 kDa.
Purification:	Protein A purified

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human ACACA
Antigen Species:	Human
Gene ID:	32
Uniprot ID:	Q13085
Synonyms:	ACC1;Acetyl-Coenzyme A carboxylase alpha (ACC-alpha);ACAC;ACACA;Acetyl-CoA carboxylase 1
Biology Area:	Integration of energy metabolism, Metabolism of lipids and lipoproteins, Synthesis, Integration of energy, Lipid metabolism, Mitochondrial markers, Fatty acid oxidation, Lipid metabolism, Mitochondrial

Research Background

Acetyl-CoA carboxylase (ACC) is a complex multifunctional enzyme system. ACC is a biotin-containing enzyme which catalyzes the carboxylation of acetyl-CoA to malonyl-CoA, the rate-limiting step in fatty acid synthesis. There are two ACC forms, alpha and beta, encoded by two different genes. ACC-alpha is highly enriched in lipogenic tissues. The enzyme is under long term control at the transcriptional and translational levels and under short term regulation by the phosphorylation/dephosphorylation of targeted serine residues and by allosteric transformation by citrate or palmitoyl-CoA. Multiple alternatively spliced transcript variants divergent in the 5' sequence and encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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