

RecomAb™

ACACA recombinant monoclonal antibody, clone R05-3D6

Catalog # RAB01634 Size 100 uL

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against synthetic peptide of residues surrounding Ser79 of human Acetyl Coenzyme A Carboxylase.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to residues surrounding Ser79 of human Acetyl Coenzyme A Carboxylase
Theoretical MW (kDa)	Calculated MW: 266 k
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Gene Info — ACACA

Entrez GeneID [31](#)

Protein Accession# [Q13085](#)

Gene Name ACACA

Gene Alias ACAC, ACC, ACC1, ACCA

Gene Description acetyl-Coenzyme A carboxylase alpha

Omim ID [200350](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations ACC-alpha|OTTHUMP00000164069|acetyl-CoA carboxylase 1|acetyl-CoA carboxylase-alpha

Pathway

- [Fatty acid biosynthesis](#)
- [Insulin signaling pathway](#)
- [Metabolic pathways](#)
- [Propanoate metabolism](#)
- [Pyruvate metabolism](#)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hypertriglyceridemia](#)
- [Obesity](#)
- [Ovarian cancer](#)
- [Psychotic Disorders](#)
- [Tobacco Use Disorder](#)