

ACACA (Human) Cell-Based ELISA Kit

Catalog # KA2554

Size 1 Kit

Specification

Product Description	ACACA (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative determination of ACACA expression in cultured cells.
Suitable Sample	Attached Cell, Loosely Attached Cell, Suspension Cell
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
Reactivity	Human, Mouse, Rat
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Qualitative

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](#)