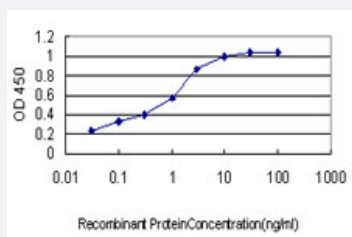


ACACA monoclonal antibody (M01), clone 6H5

Catalog # H00000031-M01

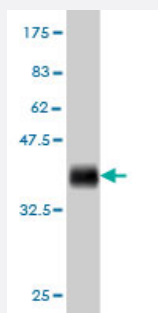
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ACACA is approximately 0.03ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant ACACA.

Immunogen

ACACA (NP_942131, 1 a.a. ~ 99 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence

MWWSTLMSILRARSFWKWISTQTVRIIRAVRAHFGGIMDEPSPLAQPLELNQHSRFIGSVSEDNSE
DEISNLVKLDLLEEKEGSLSPASVGSDDLSDL

Host

Mouse

Reactivity

Human

Interspecies Antigen Sequence	Mouse (94); Rat (94)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ACACA is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — ACACA

Entrez GeneID	31
GeneBank Accession#	NM_198834
Protein Accession#	NP_942131
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](#)