

ACACB polyclonal antibody

Catalog # PAB7260 Size 100 ug

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of ACACB.
Immunogen	A synthetic peptide corresponding to human ACACB.
Sequence	C-QLGEPDLSDKDRKD
Host	Goat
Theoretical MW (kDa)	277
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:32000) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	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

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ACACB

Entrez GeneID [32](#)

Protein Accession# [NP_001084.2](#)

Gene Name ACACB

Gene Alias ACC2, ACCB, HACC275

Gene Description acetyl-Coenzyme A carboxylase beta

Omim ID [601557](#)

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. ACC-beta is thought to control fatty acid oxidation by means of the ability of malonyl-CoA to inhibit carnitine-palmitoyl-CoA transferase I, the rate-limiting step in fatty acid uptake and oxidation by mitochondria. ACC-beta may be involved in the regulation of fatty acid oxidation, rather than fatty acid biosynthesis. There is evidence for the presence of two ACC-beta isoforms. [provided by RefSeq]

Other Designations acetyl-CoA carboxylase 2

Publication Reference

- [Aging-associated reductions in AMP-activated protein kinase activity and mitochondrial biogenesis.](#)

Reznick RM, Zong H, Li J, Morino K, Moore IK, Yu HJ, Liu ZX, Dong J, Mustard KJ, Hawley SA, Befroy D, Pypaert M, Hardie DG, Young LH, Shulman GI.

Cell Metabolism 2007 Feb; 5(2):151.

Pathway

- [Adipocytokine signaling pathway](#)
- [Fatty acid biosynthesis](#)
- [Insulin signaling pathway](#)
- [Metabolic pathways](#)

- [Propanoate metabolism](#)
- [Pyruvate metabolism](#)

Disease

- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Bulimia](#)
- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hypertriglyceridemia](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Proteinuria](#)
- [Psychotic Disorders](#)
- [Tobacco Use Disorder](#)