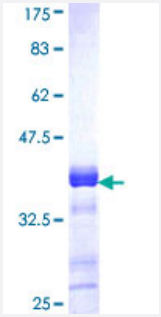
ACACB (Human) Recombinant Protein (Q01)

Catalog # H00000032-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ACACB partial ORF (NP_001084, 22 a.a. - 120 a.a.) recombinant protein with GST-tag at N -terminal.
Sequence	IWGKMTDSKPITKSKSEANLIPSQEPFPASDNSGETPQRNGEGHTLPKTPSQAEPASHKGPKDA GRRRNSLPPSHQKPPRNPLSSSDAAPSPELQANGT
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (57)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ACACB

Entrez GeneID	32
GeneBank Accession#	NM_001093
Protein Accession#	NP_001084
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

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