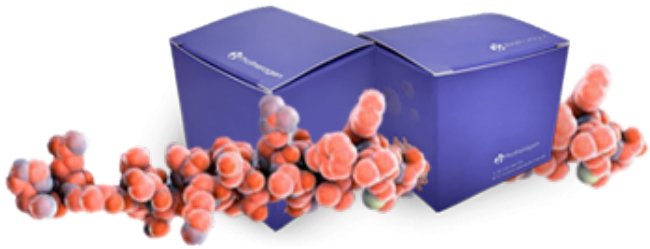
Protheragen Obesity



Mouse acetyl-CoA carboxylase 2 (ACACB) ELISA kit (1.0 ng/mL)

Cat. No.:	OB0525WXX-030
Assay Type:	Quantitative competitive ELISA
Target Species:	Mouse
Assay Target:	ACACB
Size:	48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description

Mouse acetyl-CoA carboxylase 2 (ACACB) ELISA kit (1.0 ng/mL) is a ready-to-use E LISA kit for analyzing mouse ACACB levels with a sensitivity of 1.0 ng/mL. This kit has high sensitivity and excellent specificity.

Assay Principle

The kit employs a competitive enzyme immunoassay technique using a polyclonal an ti-ACACB-IgA antibody and an ACACB-IgA-HRP conjugate. The assay sample and buffe r are incubated in a pre-coated plate with the ACACB-IgA-HRP conjugate for one h our. At the end of the incubation period, the wells are decanted and washed five times. The wells are then incubated with HRP enzyme substrate. The product of t he enzyme reaction with the substrate forms a blue colored complex. Finally, the reaction is stopped by adding a stop solution, which turns the solution yellow. The color intensity is measured spectrophotometrically at 450 nm on a microplat e reader. The color intensity is inversely proportional to the concentration of ACACB-IgA because the ACACB-IgA in the sample competes with the ACACB-IgA-HRP co njugate for the binding site of the anti-ACACB-IgA antibody. Since there are a l imited number of binding sites, as more sites are occupied by ACACB-IgA in the s ample, there are fewer sites left to bind the ACACB-IgA-HRP conjugate. A standar d curve is plotted between color intensity (O.D.) and standard concentration. Th e ACACB-IgA concentration in each sample is derived from this standard curve.

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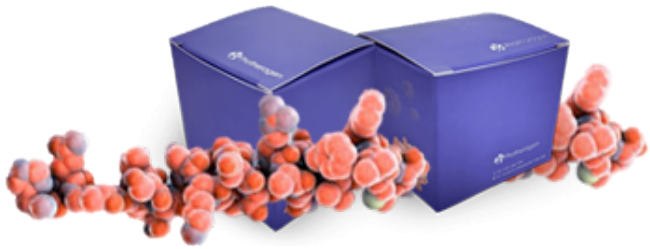

Background	ACACB (also called ACC2) is a subunit of ACC. ACC is responsible for catalyzing the carboxylation of acetyl-CoA to malonyl-CoA, which is the rate-limiting step in fatty acid synthesis. ACC2 has been found to play an important role in contro lling fatty acid oxidation and is a potential target for the treatment of obesit y and related diseases.
Synonyms	ACC2; Acetyl-coenzyme A carboxylase 2; ACC-beta or Acetyl-CoA carboxylase beta; EC 6.3.4.14
Formula Weight	268,166 Da
Applications	Mouse acetyl-CoA carboxylase 2 (ACACB) ELISA kit (1.0 ng/mL) is designed for the *in vitro* quantitative analysis of ACACB levels in mouse serum, plasma, c ell culture supernatants, body fluid, and tissue homogenate samples.
Research Area	Metabolites; Fatty acid biosynthesis; Obesity

Specification

Sample Type	Serum; Plasma; Cell culture supernatants; Body fluid; Tissue homogenate
Sensitivity	1.0 ng/mL
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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