

## Recombinant Human ACACA Protein, GST-Tagged

**Cat. No.** ACACA-126H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human ACACA partial ORF ( NP_942131, 1 a.a. - 99 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	<p>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, Jul 2008]</p>
<b>Molecular Mass</b>	36.63 kDa
<b>AA Sequence</b>	MWWSTLMSILRARSFWKWISTQTVRIIRAVRAHFGGIMDEPSPLAQPLELNQHSRFII GSVSEDNSEDEISNLVKLDLLEEKEGSLSPASVGSDTLSDL
<b>Applications</b>	<p>Enzyme-linked Immunoabsorbent Assay</p> <p>Western Blot (Recombinant protein)</p> <p>Antibody Production</p>

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**Protein Array**

<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

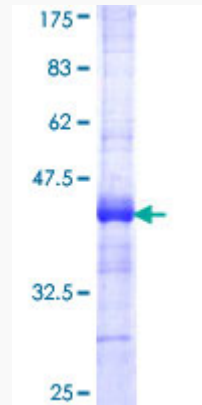
**GENE INFORMATION**

<b>Gene Name</b>	<a href="#">ACACA acetyl-CoA carboxylase alpha [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">ACACA</a>
<b>Synonyms</b>	ACACA; acetyl-CoA carboxylase alpha; ACAC, ACC, acetyl Coenzyme A carboxylase alpha; acetyl-CoA carboxylase 1; ACC1; acetyl CoA carboxylase 1; ACC-alpha; acetyl-Coenzyme A carboxylase alpha; ACC; ACAC; ACCA; ACACAD;
<b>Gene ID</b>	<a href="#">31</a>
<b>mRNA Refseq</b>	<a href="#">NM_198834</a>
<b>Protein Refseq</b>	<a href="#">NP_942131</a>
<b>MIM</b>	<a href="#">200350</a>
<b>UniProt ID</b>	<a href="#">Q13085</a>

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12.5% SDS-PAGE Stained with Coomassie Blue.

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