

Product Name: KD-Validated ACACA Rabbit Polyclonal Antibody**Catalog #: KVAb00456**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit pAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500
Molecular Weight	Calculated MW: 265.6kDa

Antigen Information

Gene Name	ACACA
Alternative Names	ACACA; Acetyl-CoA Carboxylase Alpha; Acetyl-CoA carboxylase alpha-Alpha; Acetyl-CoA carboxylase alpha1; Acetyl-CoA carboxylase alphaA; Acetyl-Coenzyme A Carboxylase Alpha; Acetyl-CoA Carboxylase 1; ACACalpha; Acetyl-CoA carboxylase alphaalpha; Acac1; HAcetyl-CoA carboxylase alpha1; ACAC; Acetyl-CoA carboxylase alpha; EC 6.4.1.2; ACACAD
Gene ID	31.0
SwissProt ID	Q13085
Immunogen	A synthesized peptide derived from human ACC alpha

Background

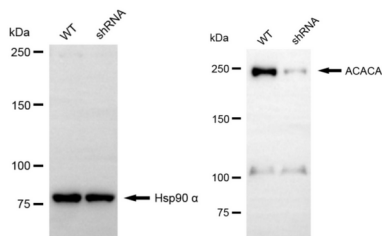
Acetyl-CoA carboxylase (ACC) is a complex multifunctional enzyme system. ACC is a biotin-containing enzyme which catalyzes

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]

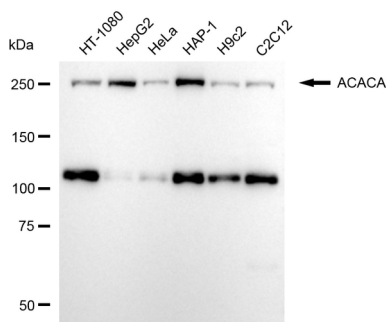
Research Area

Cardiovascular,Signal Transduction,Cancer,Metabolism

Image Data



Western blotting analysis using ACACA antibody (KVA00456). ACACA expression in wild-type (WT) and ACACA shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ACACA antibody (KVA00456, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using ACACA antibody (KVA00456). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ACACA antibody (KVA00456, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.