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Acetyl-CoA Carboxylase Rabbit mAb

Catalog No.: A23129 Recombinant

Basic Information

Observed MW
265kDa

Calculated MW
265kDa/276kDa

Category
Primary antibody

Applications
WB,IP,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC59304

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.

Recommended Dilutions

WB	1:1000 - 1:5000
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
31/32

Swiss Prot
Q13085/O00763

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
ACC; ACAC; ACC1; ACCA; Acac1; hACC1; ACACAD; ACCalpha; ACACalpha; Acetyl-CoA Carboxylase

Contact

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Product Information

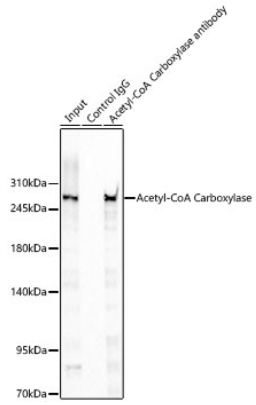
Source
Rabbit

Isotype
IgG

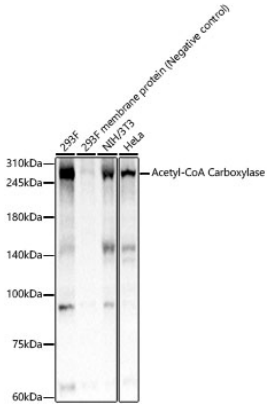
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

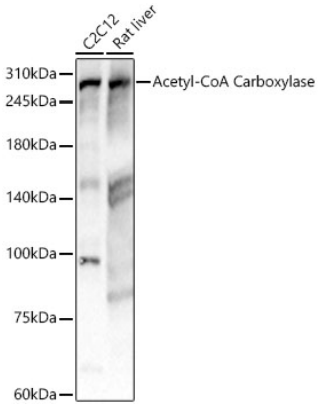
Validation Data



Immunoprecipitation of Acetyl-CoA Carboxylase from 300 µg extracts of 293F cells was performed using 3 µg of Acetyl-CoA Carboxylase Rabbit mAb (A23129). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Acetyl-CoA Carboxylase Rabbit mAb (A23129) at a dilution of 1:5000.



Western blot analysis of various lysates, using Acetyl-CoA Carboxylase Rabbit mAb (A23129) at 1:2000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



Western blot analysis of various lysates, using Acetyl-CoA Carboxylase Rabbit mAb (A23129) at 1:2000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 3s.