ACC1 Rabbit mAb

Catalog No.: A19627

Recombinant | 11 Publications

Basic Information

Observed MW
277 kDa

Calculated MW
266 kDa

Category
Monoclonal Antibodies

Applications
WB, IP, IHC-P, ELISA

Cross Reactivity
Human, Mouse, Rat

Clone No.
ARC2201

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	1:2000 - 1:10000
IP	0.5 µg - 4 µg antibody for 200 µg - 400 µg extracts of whole cells
IHC-P	1:50 - 1:200
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
31

Swiss-Prot
Q13085

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

Synonyms
ACC; ACAC; ACC1; ACCA; Acac1; hACC1; ACACAD; ACCalpha; ACACalpha

Contact

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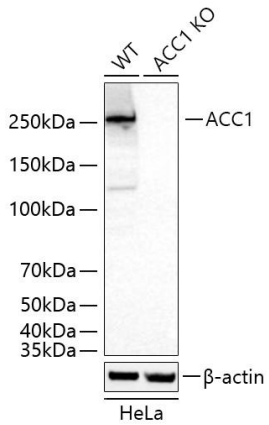
Product Information

Source	Isotype	Purity
Rabbit	IgG	Affinity purification

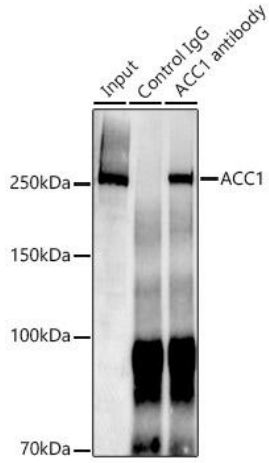
Storage

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.

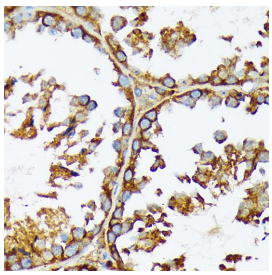
Validation Data



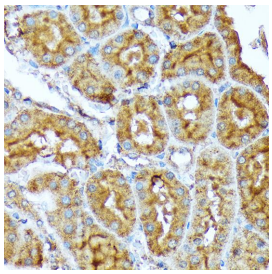
Western blot analysis of lysates from wild type (WT) and ACC1 knockout (KO) HeLa cells using ACC1 Rabbit mAb (A19627) at 1:5000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.



Immunoprecipitation analysis of 300 µg extracts of HepG2 cells using 3 µg ACC1 antibody (A19627). Western blot was performed from the immunoprecipitate using ACC1 (A19627) at a dilution of 1:1000.



Immunohistochemistry analysis of paraffin-embedded Mouse testis using ACC1 Rabbit mAb (A19627) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat kidney using ACC1 Rabbit mAb (A19627) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.