

A19627

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# ACC1 Rabbit mAb

Catalog No.: A19627 **Recombinant** **3 Publications**

## Basic Information

### Observed MW

277kDa

### Calculated MW

266kDa

### Category

SMab Recombinant Monoclonal Antibody

### Applications

WB,IHC-P,IP,ELISA

### Cross-Reactivity

Human,Mouse,Rat

### CloneNo number

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

<b>WB</b>	1:500 - 1:2000
<b>IHC-P</b>	1:50 - 1:200
<b>IP</b>	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells

## Immunogen Information

<b>Gene ID</b>	<b>Swiss Prot</b>
31	Q13085

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 350-450 of human ACC1 (Q13085).

### Synonyms

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

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Product Information

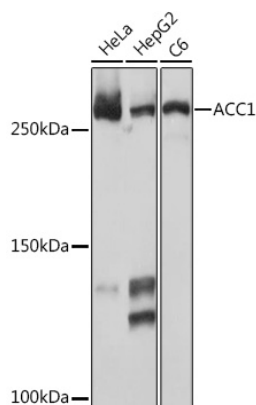
<b>Source</b>	<b>Isotype</b>	<b>Purification</b>
Rabbit	IgG	Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

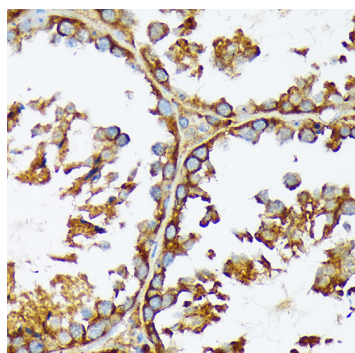
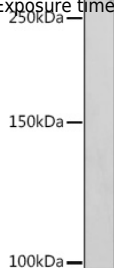
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

## Validation Data

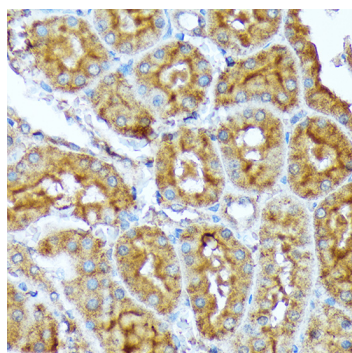


Western blot analysis of various lysates using ACC1 Rabbit mAb (A19627) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 10s.

Western blot analysis of lysates from Mouse heart, using ACC1 Rabbit mAb (A19627) at 1:1000 dilution.  
Secondary antibody: HRP 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: 30s.



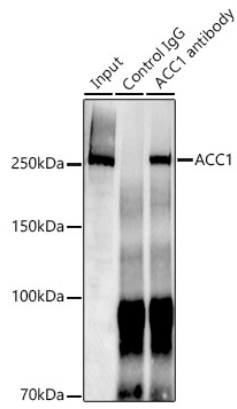
Immunohistochemistry analysis of ACC1 in paraffin-embedded mouse testis using ACC1 Rabbit mAb (A19627) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of ACC1 in paraffin-embedded rat kidney using ACC1 Rabbit mAb (A19627) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

## Validation Data

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