

**ACC $\alpha$  Polyclonal Antibody**  
**Catalog # AP68258****Specification**

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**ACC $\alpha$  Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">Q13085</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**ACC $\alpha$  Polyclonal Antibody - Additional Information****Gene ID 31****Other Names**

ACACA; ACAC; ACC1; ACCA; Acetyl-CoA carboxylase 1; ACC1; ACC-alpha

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.

IHC-P~~N/A

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**ACC $\alpha$  Polyclonal Antibody - Protein Information****Name** ACACA ([HGNC:84](#))**Synonyms** ACAC, ACC1, ACCA**Function**

Cytosolic enzyme that catalyzes the carboxylation of acetyl- CoA to malonyl-CoA, the first and rate-limiting step of de novo fatty acid biosynthesis (PubMed:<a href="http://www.uniprot.org/citations/20457939" target="\_blank">20457939</a>, PubMed:<a href="http://www.uniprot.org/citations/20952656" target="\_blank">20952656</a>, PubMed:<a href="http://www.uniprot.org/citations/29899443" target="\_blank">29899443</a>). This is a 2 steps reaction starting with the ATP-dependent carboxylation of the biotin carried by the biotin carboxyl carrier (BCC) domain followed by the transfer of the carboxyl group from carboxylated biotin to acetyl-CoA (PubMed:<a href="http://www.uniprot.org/citations/20457939" target="\_blank">20457939</a>, PubMed:<a href="http://www.uniprot.org/citations/20952656" target="\_blank">20952656</a>, PubMed:<a href="http://www.uniprot.org/citations/29899443" target="\_blank">29899443</a>).

**Cellular Location**

Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q5SWU9}

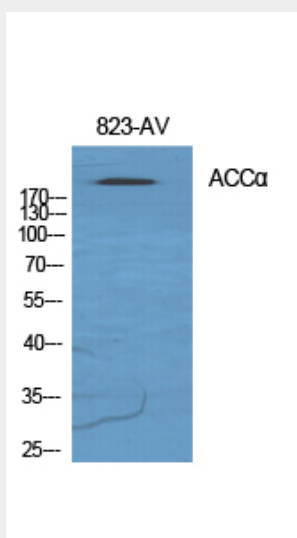
**Tissue Location**

Expressed in brain, placenta, skeletal muscle, renal, pancreatic and adipose tissues; expressed at low level in pulmonary tissue; not detected in the liver

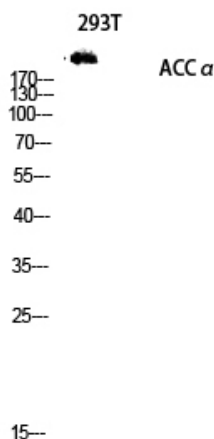
**ACC $\alpha$  Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

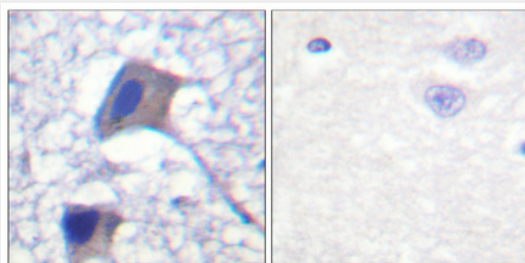
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**ACC $\alpha$  Polyclonal Antibody - Images**

Western Blot analysis of various cells using ACC $\alpha$  Polyclonal Antibody diluted at 1:1000



Western blot analysis of 293T lysis using ACC $\alpha$  antibody. Antibody was diluted at 1:1000



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.

#### **ACC $\alpha$ Polyclonal Antibody - Background**

Catalyzes the rate-limiting reaction in the biogenesis of long-chain fatty acids. Carries out three functions: biotin carboxyl carrier protein, biotin carboxylase and carboxyltransferase.