

Acetyl Coenzyme A Carboxylase Antibody
Rabbit mAb
Catalog # AP93216**Specification**

Acetyl Coenzyme A Carboxylase Antibody - Product Information

Application	WB, IHC, ICC
Primary Accession	Q13085
Clonality	Monoclonal
Other Names	
ACAC; ACACA; ACC alpha; ACC1; ACCA; Acetyl Coenzyme A; Biotin carboxylase;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	265554 Da

Acetyl Coenzyme A Carboxylase Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Acetyl Coenzyme A Carboxylase
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Acetyl Coenzyme A Carboxylase 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: [20457939](http://www.uniprot.org/citations/20457939), PubMed: [20952656](http://www.uniprot.org/citations/20952656), PubMed: [29899443](http://www.uniprot.org/citations/29899443)). 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: [20457939](http://www.uniprot.org/citations/20457939), PubMed: [20952656](http://www.uniprot.org/citations/20952656), PubMed: [29899443](http://www.uniprot.org/citations/29899443))

target="_blank">29899443).

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

Acetyl Coenzyme A Carboxylase 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](#)

Acetyl Coenzyme A Carboxylase Antibody - Images