

# Anti-Acetyl Coenzyme A Carboxylase Rabbit Monoclonal Antibody

Catalog # ABO16735

## Product Information

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| <b>Application</b>       | WB, IHC                                                                                                                                  |
| <b>Primary Accession</b> | <a href="#">Q13085</a>                                                                                                                   |
| <b>Host</b>              | Rabbit                                                                                                                                   |
| <b>Isotype</b>           | Rabbit IgG                                                                                                                               |
| <b>Reactivity</b>        | Human                                                                                                                                    |
| <b>Clonality</b>         | Monoclonal                                                                                                                               |
| <b>Format</b>            | Liquid                                                                                                                                   |
| <b>Description</b>       | Anti-Acetyl Coenzyme A Carboxylase Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human. |

## Additional Information

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| <b>Gene ID</b>                         | 31                                                                                                                                           |
| <b>Other Names</b>                     | Acetyl-CoA carboxylase 1, ACC1, 6.4.1.2, Acetyl-Coenzyme A carboxylase alpha, ACC-alpha, ACACA ( <a href="#">HGNC:84</a> ), ACAC, ACC1, ACCA |
| <b>Calculated MW</b>                   | 265554                                                                                                                                       |
| <b>Application Details</b>             | WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200                                                                                       |
| <b>Source</b>                          | Eukaryota                                                                                                                                    |
| <b>Contents</b>                        | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                          |
| <b>Clone Names</b><br><b>Immunogen</b> | Clone: 32A06<br>A synthesized peptide derived from human Acetyl Coenzyme A Carboxylase                                                       |
| <b>Purification</b>                    | Affinity-chromatography                                                                                                                      |
| <b>Storage</b>                         | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.   |

## Protein Information

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|-----------------|-----------------------------------|
| <b>Name</b>     | ACACA ( <a href="#">HGNC:84</a> ) |
| <b>Synonyms</b> | ACAC, ACC1, ACCA                  |

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| <b>Function</b>          | 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="#">20457939</a> , PubMed: <a href="#">20952656</a> , PubMed: <a href="#">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="#">20457939</a> , PubMed: <a href="#">20952656</a> , PubMed: <a href="#">29899443</a> ). |
| <b>Cellular Location</b> | Cytoplasm, cytosol {ECO:0000250 UniProtKB:Q5SWU9}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Tissue Location</b>   | Expressed in brain, placenta, skeletal muscle, renal, pancreatic and adipose tissues; expressed at low level in pulmonary tissue; not detected in the liver                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.