

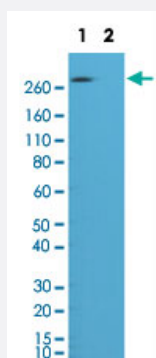
RecomAb™

# ACACA/ACACB (phospho S79) monoclonal antibody, clone RM270

Catalog # MAB14918

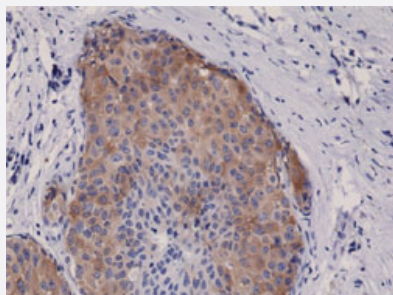
Size 100 uL

## Applications



### Western Blot (Cell lysate)

Western Blot analysis of A431 cell lysate Lane 1: nontreated and Lane 2: treated with Lambda Protein Phosphatase with ACACA/ACACB (phospho S79) monoclonal antibody, clone RM270 (Cat # MAB14918).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human breast cancer with ACACA/ACACB (phospho S79) monoclonal antibody, clone RM270 (Cat # MAB14918).

## Specification

|                            |                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Rabbit recombinant monoclonal antibody raised against of human ACACA/ACACB.                                                    |
| <b>Antibody Species</b>    | Rabbit                                                                                                                         |
| <b>Immunogen</b>           | Original antibody is raised against a synthetic phosphopeptide corresponding to residues surrounding S79 of human ACACA/ACACB. |
| <b>Sequence</b>            | N/A                                                                                                                            |

|                     |                                                                                                                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity          | Human                                                                                                                                                                                          |
| Form                | Liquid                                                                                                                                                                                         |
| Purification        | Protein A purification                                                                                                                                                                         |
| Isotype             | IgG                                                                                                                                                                                            |
| Recommend Usage     | Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:1000-1:2000)<br>Western Blotting (1:1000-1:5000)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In PBS (50% glycerol, 1% BSA, 0.09% sodium azide)                                                                                                                                              |
| Storage Instruction | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                             |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                         |

## Applications

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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## Gene Info — ACACA

|                    |                                     |
|--------------------|-------------------------------------|
| Entrez GeneID      | <a href="#">31</a>                  |
| Protein Accession# | <a href="#">Q13085;Q00763</a>       |
| Gene Name          | ACACA                               |
| Gene Alias         | ACAC, ACC, ACC1, ACCA               |
| Gene Description   | acetyl-Coenzyme A carboxylase alpha |
| Omim ID            | <a href="#">200350</a>              |
| Gene Ontology      | <a href="#">Hyperlink</a>           |

### Gene Summary

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. [provided by RefSeq]

### Other Designations

ACC-alpha|OTTHUMP00000164069|acetyl-CoA carboxylase 1|acetyl-CoA carboxylase-alpha

## Gene Info — ACACB

### Entrez GeneID

[32](#)

### Protein Accession#

[Q13085:Q00763](#)

### Gene Name

ACACB

### Gene Alias

ACC2, ACCB, HACC275

### Gene Description

acetyl-Coenzyme A carboxylase beta

### Omim ID

[601557](#)

### Gene Ontology

[Hyperlink](#)

### Gene Summary

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. ACC-beta is thought to control fatty acid oxidation by means of the ability of malonyl-CoA to inhibit carnitine-palmitoyl-CoA transferase I, the rate-limiting step in fatty acid uptake and oxidation by mitochondria. ACC-beta may be involved in the regulation of fatty acid oxidation, rather than fatty acid biosynthesis. There is evidence for the presence of two ACC-beta isoforms. [provided by RefSeq]

### Other Designations

acetyl-CoA carboxylase 2

## Pathway

- [Adipocytokine signaling pathway](#)
- [Fatty acid biosynthesis](#)
- [Fatty acid biosynthesis](#)
- [Insulin signaling pathway](#)

- [Insulin signaling pathway](#)
- [Metabolic pathways](#)
- [Metabolic pathways](#)
- [Propanoate metabolism](#)
- [Propanoate metabolism](#)
- [Pyruvate metabolism](#)
- [Pyruvate metabolism](#)

## Disease

- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bulimia](#)
- [Cardiovascular Diseases](#)
- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Drug Toxicity](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)

- [Hypercholesterolemia](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hyperlipidemias](#)
- [Hypertriglyceridemia](#)
- [Hypertriglyceridemia](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Obesity](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Proteinuria](#)
- [Psychotic Disorders](#)
- [Psychotic Disorders](#)
- [Tobacco Use Disorder](#)
- [Tobacco Use Disorder](#)