

## Anti-ACAT1 Rabbit Monoclonal Antibody Catalog # ABO16419

### Specification

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#### Anti-ACAT1 Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IP
Primary Accession	<a href="#">P24752</a>
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-ACAT1 Rabbit Monoclonal Antibody . Tested in WB, IHC, IP applications. This antibody reacts with Human, Mouse, Rat.

#### Anti-ACAT1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 38

#### Other Names

Acetyl-CoA acetyltransferase, mitochondrial, 2.3.1.9 {ECO:0000255|PROSITE-ProRule:PRU10020, ECO:0000269|PubMed:1715688, ECO:0000269|PubMed:17371050, ECO:0000269|PubMed:7728148, ECO:0000269|PubMed:9744475}, Acetoacetyl-CoA thiolase, T2, ACAT1, ACAT, MAT

#### Calculated MW

45 kDa KDa

#### Application Details

WB 1:500-1:2000<br>IHC 1:50-1:200<br>IP 1:50

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human ACAT1

#### Purification

Affinity-chromatography

#### Storage

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.

#### Anti-ACAT1 Rabbit Monoclonal Antibody - Protein Information

**Name** ACAT1

**Synonyms** ACAT, MAT

### Function

This is one of the enzymes that catalyzes the last step of the mitochondrial beta-oxidation pathway, an aerobic process breaking down fatty acids into acetyl-CoA (PubMed:<a href="http://www.uniprot.org/citations/1715688" target="\_blank">1715688</a>, PubMed:<a href="http://www.uniprot.org/citations/7728148" target="\_blank">7728148</a>, PubMed:<a href="http://www.uniprot.org/citations/9744475" target="\_blank">9744475</a>). Using free coenzyme A/CoA, catalyzes the thiolytic cleavage of medium- to long-chain 3-oxoacyl-CoAs into acetyl-CoA and a fatty acyl-CoA shortened by two carbon atoms (PubMed:<a href="http://www.uniprot.org/citations/1715688" target="\_blank">1715688</a>, PubMed:<a href="http://www.uniprot.org/citations/7728148" target="\_blank">7728148</a>, PubMed:<a href="http://www.uniprot.org/citations/9744475" target="\_blank">9744475</a>). The activity of the enzyme is reversible and it can also catalyze the condensation of two acetyl-CoA molecules into acetoacetyl-CoA (PubMed:<a href="http://www.uniprot.org/citations/17371050" target="\_blank">17371050</a>). Thereby, it plays a major role in ketone body metabolism (PubMed:<a href="http://www.uniprot.org/citations/1715688" target="\_blank">1715688</a>, PubMed:<a href="http://www.uniprot.org/citations/17371050" target="\_blank">17371050</a>, PubMed:<a href="http://www.uniprot.org/citations/7728148" target="\_blank">7728148</a>, PubMed:<a href="http://www.uniprot.org/citations/9744475" target="\_blank">9744475</a>).

### Cellular Location

Mitochondrion.

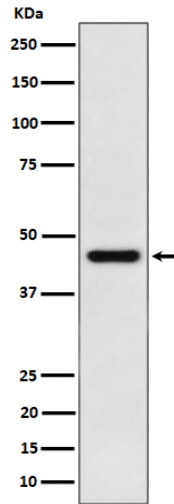
### Anti-ACAT1 Rabbit Monoclonal Antibody - Protocols

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

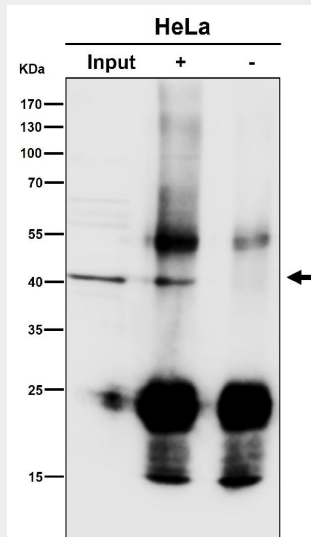
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-ACAT1 Rabbit Monoclonal Antibody - Images





Western blot analysis of ACAT1 expression in HepG2 cell lysate.



Immunoprecipitate (IP) analysis using the Antibody at 1:50 dilution. (wb at 1:1K dilution)