

ACAT1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10190**Specification**

ACAT1 Antibody - Product Information

Application	WB
Primary Accession	P17764
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	44695

ACAT1 Antibody - Additional Information**Gene ID** 25014

Positive Control	Jurkat cell lysate
Application & Usage	The antibody can be used for Western blot analysis (1-4 µg/ml). However, the optimal conditions should be determined individually. Blocking peptide is available separately.

Other Names

Acetyl-CoA acetyltransferase mitochondrial

Target/Specificity

ACAT1

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-ACAT1 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

ACAT1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ACAT1 Antibody - Protein Information

Name Acat1

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. 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. The activity of the enzyme is reversible and it can also catalyze the condensation of two acetyl-CoA molecules into acetoacetyl-CoA. Thereby, it plays a major role in ketone body metabolism.

Cellular Location

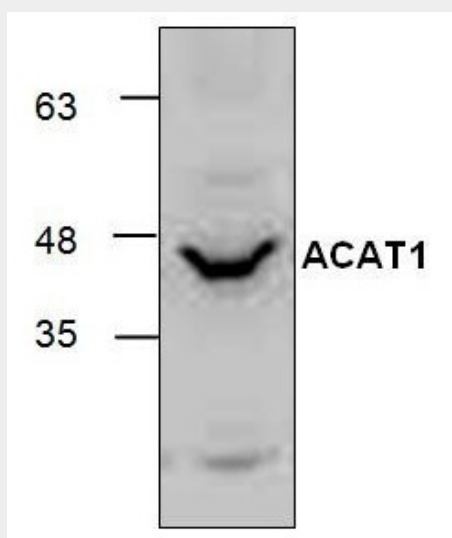
Mitochondrion {ECO:0000250|UniProtKB:P24752}.

ACAT1 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](#)

ACAT1 Antibody - Images



Western blot analysis of ACAT1 with Jurkat cell lysate.

ACAT1 Antibody - Background

Acetyl-Coenzyme A acetyltransferase 1 (ACAT1) is a mitochondrial enzyme that catalyzes the formation of cholesterol esters from cholesterol and long chain fatty acyl-coenzyme A. ACAT1 may play an important role in the development of atherosclerosis due to cholesterol buildup in macrophage.