

**ACAT1 Blocking Peptide**  
**Catalog # PBV10099b****Specification**

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**ACAT1 Blocking Peptide - Product Information**

Primary Accession	<a href="#">P17764</a>
Gene ID	<b>25014</b>
Calculated MW	<b>44695</b>

**ACAT1 Blocking Peptide - Additional Information****Gene ID** 25014**Application & Usage**

The peptide is used for blocking the antibody activity of ACAT1. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37 °C

**Other Names**

Acetyl-CoA acetyltransferase, mitochondrial, 2.3.1.9, Acetoacetyl-CoA thiolase, Acat1

**Target/Specificity**

ACAT1

**Formulation**

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

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

**ACAT1 Blocking Peptide - 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 Blocking Peptide - 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 Blocking Peptide - Images**