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ACAA2 Blocking Peptide
Catalog # PBV10223b

Specification

ACAA2 Blocking Peptide - Product Information

Primary Accession	P13437
Other Accession	EDL82881.1
Gene ID	170465
Calculated MW	41871

ACAA2 Blocking Peptide - Additional Information

Gene ID 170465

Application & Usage	**The peptide is used for blocking the antibody activity of ACAA2. 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
3-ketoacyl-CoA thiolase, mitochondrial, 2.3.1.16, Acetyl-CoA acyltransferase, Beta-ketothiolase, Mitochondrial 3-oxoacyl-CoA thiolase, Acaa2

Target/Specificity
ACAA2

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
ACAA2 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

ACAA2 Blocking Peptide - Protein Information

Name Acaa2

Function
In the production of energy from fats, 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 (Probable). Using free coenzyme A/CoA, catalyzes the thiolytic cleavage of medium- to long-chain unbranched 3-oxoacyl-CoAs into acetyl-CoA and a fatty acyl-CoA shortened by two carbon atoms (Probable). Also catalyzes the condensation of two acetyl-CoA molecules into acetoacetyl-CoA and could be involved in the production of ketone bodies (Probable). Also displays hydrolase activity on various fatty acyl-CoAs (PubMed:16476568). Thereby, could be responsible for the production of acetate in a side reaction to beta-oxidation (Probable). Abolishes BNIP3-mediated apoptosis and mitochondrial damage (By similarity).

Cellular Location
Mitochondrion.

Tissue Location
Expressed in liver, brown adipose tissue and heart (at protein level).

ACAA2 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 Cytomety
- Cell Culture

ACAA2 Blocking Peptide - Images