

ACAA2 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10394**Specification**

ACAA2 Antibody - Product Information

Application	WB
Primary Accession	P13437
Other Accession	EDL82881.1
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	41871

ACAA2 Antibody - Additional Information**Gene ID** 170465Positive Control
Application & Usage**Rat kidney tissue lysate**
Western Blot analysis (1-4 µg/ml).
However, the optimal concentrations
should be determined individually.
Blocking peptide is available separately.**Other Names**

Peroxisomal 3-oxoacyl-CoA thiolase A

Target/Specificity

ACAA2

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-ACAA2 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**

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

ACAA2 Antibody - 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

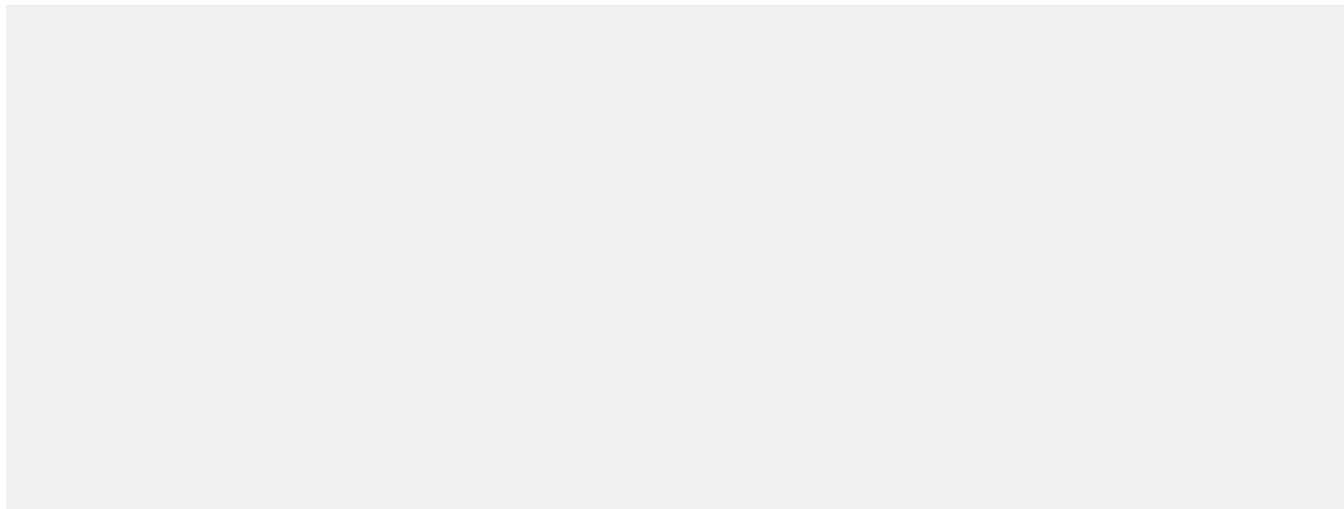
Expressed in liver, brown adipose tissue and heart (at protein level).

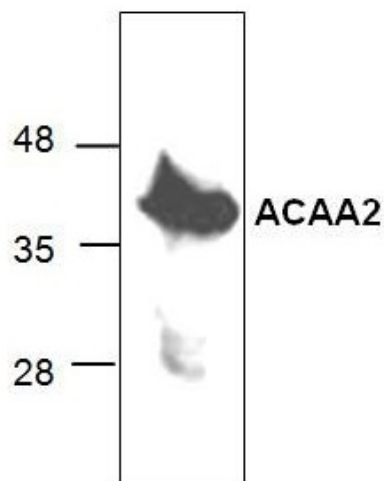
ACAA2 Antibody - Protocols

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](#)

ACAA2 Antibody - Images





Western blot analysis of ACAA2 using rat kidney tissue lysate.

ACAA2 Antibody - Background

ACAA2 (acetylcoenzyme A acyltransferase 2), is member of the thiolase family of enzymes and is involved in lipid metabolism. ACAA2 is localized in the mitochondria. ACCA2 catalyzes the last conversion step of acetyl-CoA to 3-oxoacyl-CoA, in the fatty acid oxidation pathway.