

**ACAA2 antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI12898****Specification**

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**ACAA2 antibody - N-terminal region - Product Information**

|                   |                                                                                    |
|-------------------|------------------------------------------------------------------------------------|
| Application       | WB                                                                                 |
| Primary Accession | <a href="#">P42765</a>                                                             |
| Other Accession   | <a href="#">NM_006111</a> , <a href="#">NP_006102</a>                              |
| Reactivity        | Human, Mouse, Rat, Rabbit, Zebrafish, Sheep, Horse, Yeast, Bovine, Guinea Pig, Dog |
| Predicted         | Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Chicken, Sheep, Guinea Pig, Dog         |
| Host              | Rabbit                                                                             |
| Clonality         | Polyclonal                                                                         |
| Calculated MW     | 42kDa kDa                                                                          |

**ACAA2 antibody - N-terminal region - Additional Information****Gene ID** 10449**Alias Symbol** **DSAEC**  
**Other Names**

3-ketoacyl-CoA thiolase, mitochondrial, 2.3.1.16, Acetyl-CoA acyltransferase, Beta-ketothiolase, Mitochondrial 3-oxoacyl-CoA thiolase, T1, ACAA2

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-ACAA2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

ACAA2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**ACAA2 antibody - N-terminal region - 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:<a href="http://www.uniprot.org/citations/25478839" target="\_blank">25478839</a>). Thereby, could be responsible for the production of acetate in a side reaction to beta-oxidation (Probable). Abolishes BNIP3-mediated apoptosis and mitochondrial damage (PubMed:<a href="http://www.uniprot.org/citations/18371312" target="\_blank">18371312</a>).

#### Cellular Location

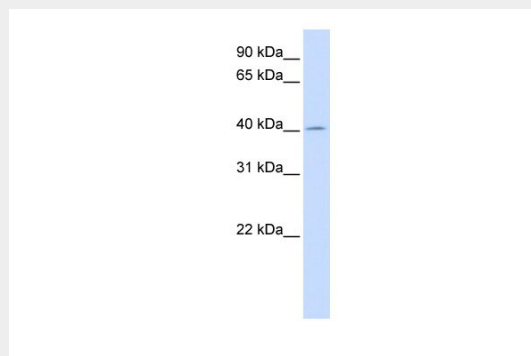
Mitochondrion.

#### ACAA2 antibody - N-terminal region - 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 - N-terminal region - Images



WB Suggested Anti-ACAA2 Antibody Titration: 0.2-1 µg/ml

ELISA Titer: 1:312500

Positive Control: Human Liver

#### ACAA2 antibody - N-terminal region - References

Aboulaich, N., Biochem. J. 383 (PT2), 237-248 (2004) Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.