

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

ACAA2 antibody - N-terminal region - Product Information

Application	WB
Primary Accession	P42765
Other Accession	NM_006111 , NP_006102
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:25478839). 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:18371312).

Cellular Location

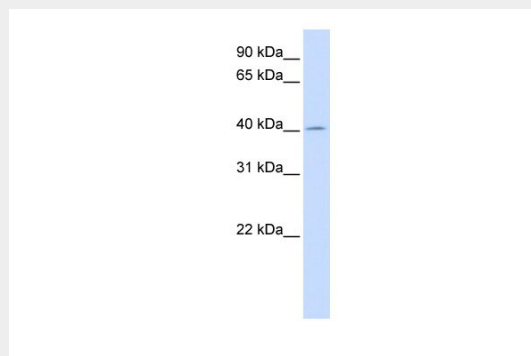
Mitochondrion.

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.