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ACAA2 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI12898

Product Information

Application	WB
Primary Accession	P42765
Other Accession	NM_006111, NP_006102
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Guinea Pig, Horse, Bovine, Sheep, Yeast
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Chicken, Dog, Guinea Pig, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41924

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.

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

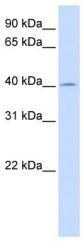
the production of acetate in a side reaction to beta-oxidation (Probable). Abolishes BNIP3-mediated apoptosis and mitochondrial damage (PubMed:18371312).

Cellular Location Mitochondrion.

References

Aboulaich,N.,Biochem.J.383(PT2),237-248(2004)ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto 1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.

Images



WB Suggested Anti-ACAA2 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: Human Liver

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.