

KD-Validated Anti-Acetyl-CoA acyltransferase 2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1304

Product Information

Application	WB, FC, ICC
Primary Accession	P42765
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 2955
Calculated MW	41924
Gene Name	ACAA2
Aliases	ACAA2; Acetyl-CoA Acyltransferase 2; DSAEC 2; Mitochondrial 3-Oxoacyl-Coenzyme A Thiolase 2; 3-Ketoacyl-CoA Thiolase, Mitochondrial; Mitochondrial 3-Oxoacyl-CoA Thiolase; Acetyl-Coenzyme A Acyltransferase 2; Acyl-CoA Hydrolase, Mitochondrial; Acetyl-CoA Acetyltransferase; EC 2.3.1.16; T1; Acetyl-CoA Acyltransferase; Beta Ketothiolase; Beta-Ketothiolase; EC 2.3.1.9; EC 3.1.2.-; EC 3.1.2.1; EC 3.1.2.2; EC 2.3.1
Immunogen	A synthesized peptide derived from human ACAA2

Additional Information

Gene ID	10449
Other Names	3-ketoacyl-CoA thiolase, mitochondrial, 2.3.1.16, Acetyl-CoA acetyltransferase, 2.3.1.9, Acetyl-CoA acyltransferase, Acyl-CoA hydrolase, mitochondrial, 3.1.2.-, 3.1.2.1, 3.1.2.2, Beta-ketothiolase, Mitochondrial 3-oxoacyl-CoA thiolase, T1, ACAA2

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.

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