

KD-Validated Anti-Acetyl-CoA acetyltransferase 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2343

Product Information

Application	WB, FC, ICC
Primary Accession	P24752
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB1255
Calculated MW	45200
Gene Name	ACAT1
Aliases	ACAT1; Acetyl-CoA Acetyltransferase 1; THIL; ACAT; Acetyl-CoA Acetyltransferase, Mitochondrial; Acetyl-Coenzyme A Acetyltransferase 1; Acetoacetyl Coenzyme A Thiolase; Acetoacetyl-CoA Thiolase; EC 2.3.1.9; MAT; T2; Mitochondrial Acetoacetyl-CoA Thiolase; Testicular Tissue Protein Li 198; EC 2.3.1
Immunogen	A synthesized peptide derived from human ACAT1

Additional Information

Gene ID	38
Other Names	Acetyl-CoA acetyltransferase, mitochondrial, 2.3.1.9 {ECO:0000255 PROSITE-ProRule:PRU10020, ECO:0000269 PubMed:1715688, ECO:0000269 PubMed:17371050, ECO:0000269 PubMed:7728148, ECO:0000269 PubMed:9744475}, Acetoacetyl-CoA thiolase, T2, ACAT1, ACAT, MAT

Protein Information

Name	ACAT1
Synonyms	ACAT, MAT
Function	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 (PubMed: 1715688 , PubMed: 7728148 , PubMed: 9744475). Using free coenzyme A/CoA, catalyzes the thiolytic cleavage of medium- to long-chain 3-oxoacyl-CoAs into acetyl-CoA and a fatty acyl-CoA shortened by two carbon atoms (PubMed: 1715688 , PubMed: 7728148 , PubMed: 9744475). The activity of the enzyme is reversible and it can also catalyze the condensation of two acetyl-CoA molecules into acetoacetyl-CoA (PubMed: 17371050). Thereby, it plays a major role in ketone body

metabolism (PubMed:[1715688](#), PubMed:[17371050](#), PubMed:[7728148](#), PubMed:[9744475](#)).

Cellular Location

Mitochondrion.

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