

KD-Validated Anti-ACAT1 Rabbit Polyclonal Antibody
Rabbit polyclonal antibody
Catalog # AGI2113**Specification****KD-Validated Anti-ACAT1 Rabbit Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	P24752
Reactivity	Rat, Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 45 kDa, observed, 41 kDa kDa
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

KD-Validated Anti-ACAT1 Rabbit Polyclonal Antibody - 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	

KD-Validated Anti-ACAT1 Rabbit Polyclonal Antibody - 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

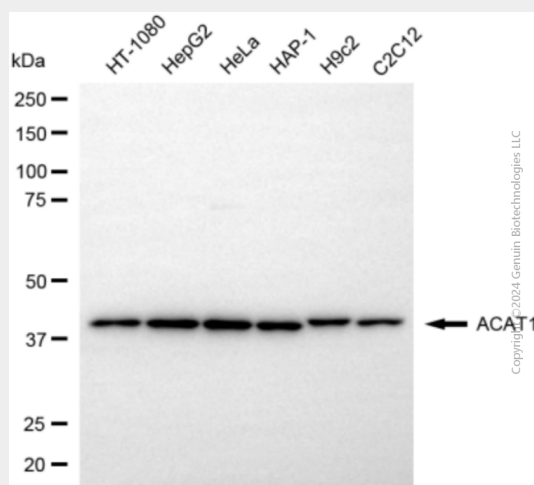
Mitochondrion.

KD-Validated Anti-ACAT1 Rabbit Polyclonal Antibody - Protocols

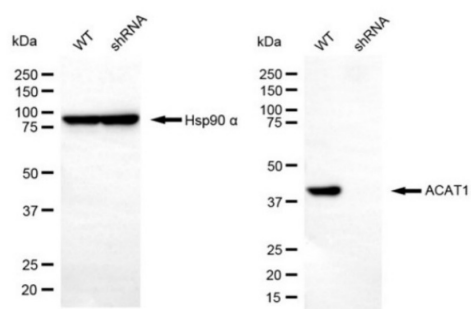
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-ACAT1 Rabbit Polyclonal Antibody - Images



Western blotting analysis using anti-ACAT1 antibody (Cat#AGI2113). Total cell lysates (20 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ACAT1 antibody (Cat#AGI2113, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Western blotting analysis using anti-ACAT1 antibody (Cat #AGI2113). ACAT1 expression in wild-type (WT) and ACAT1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-ACAT1 antibody (Cat #AGI2113, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody respectively.