

ARG44091
anti-ACAT1 antibodyPackage: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal recognizes ACAT1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ACAT1
Species	Human
Immunogen	Human ACAT1 recombinant protein (Position: S10-Q404).
Conjugation	Un-conjugated
Alternate Names	EC 2.3.1.9; Acetoacetyl-CoA thiolase; MAT; T2; ACAT; THIL; Acetyl-CoA acetyltransferase, mitochondrial

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	ICC/IF	5 µg/ml
	IHC-P	2 - 5 µg/ml
	WB	0.25 - 0.5 µg/ml
Application Note	The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

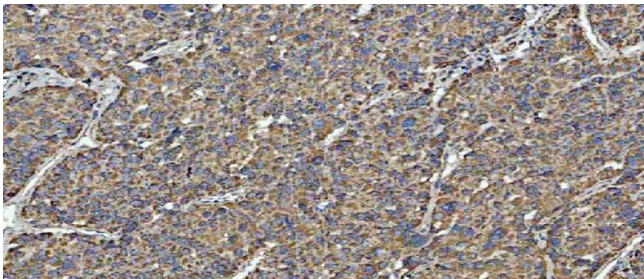
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

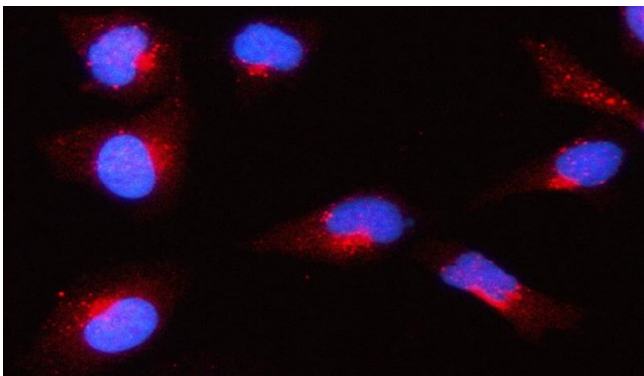
Gene Symbol	ACAT1
Gene Full Name	acetyl-CoA acetyltransferase 1
Background	This gene encodes a mitochondrially localized enzyme that catalyzes the reversible formation of acetoacetyl-CoA from two molecules of acetyl-CoA. Defects in this gene are associated with 3-ketothiolase deficiency, an inborn error of isoleucine catabolism characterized by urinary excretion of 2-methyl-3-hydroxybutyric acid, 2-methylacetoacetic acid, tiglylglycine, and butanone. [provided by RefSeq, Feb 2009]
Function	Plays a major role in ketone body metabolism. [UniProt]
Calculated Mw	45 kDa
PTM	Succinylation at Lys-268, adjacent to a coenzyme A binding site. Desuccinylated by SIRT5 (By similarity).

Images



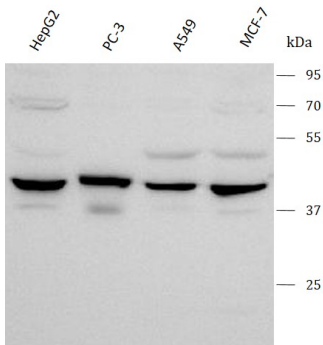
ARG44091 anti-ACAT1 antibody IHC-P image

Immunohistochemistry: Human liver cancer stained with ARG44091 anti-ACAT1 antibody at 2 µg/ml dilution.



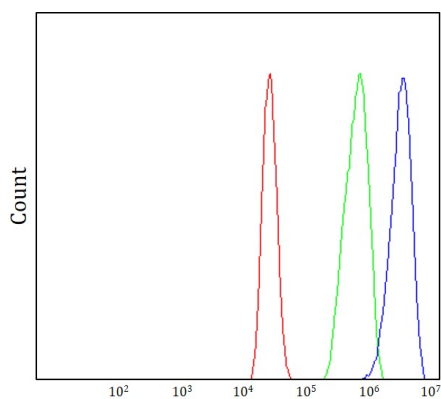
ARG44091 anti-ACAT1 antibody ICC/IF image

Immunofluorescence: HeLa stained with ARG44091 anti-ACAT1 antibody at 5 µg/ml dilution.



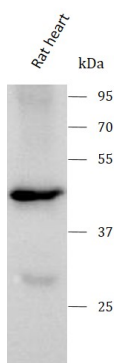
ARG44091 anti-ACAT1 antibody WB image

Western blot: HepG2, PC-3, A549 and MCF-7 stained with ARG44091 anti-ACAT1 antibody at 0.5 µg/mL dilution.



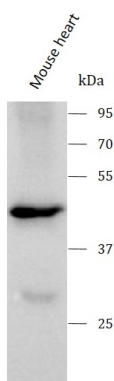
ARG44091 anti-ACAT1 antibody FACS image

Flow Cytometry: MCF-7 stained with ARG44091 anti-ACAT1 antibody at $1\ \mu\text{g}/10^6$ cells dilution.



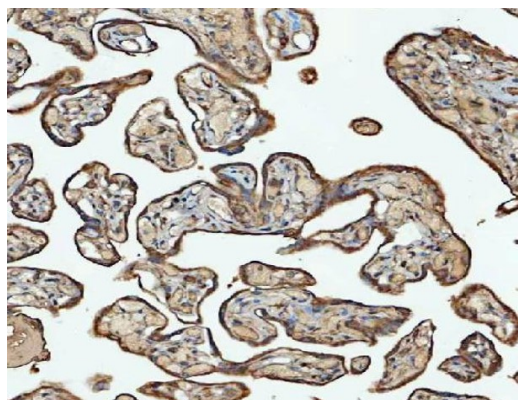
ARG44091 anti-ACAT1 antibody WB image

Western blot: Rat heart stained with ARG44091 anti-ACAT1 antibody at $0.5\ \mu\text{g}/\text{mL}$ dilution.



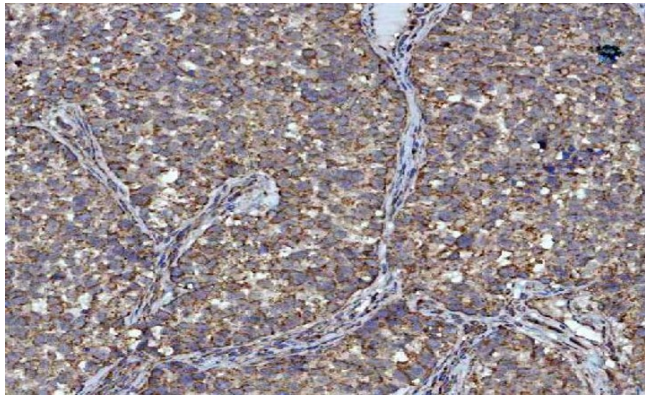
ARG44091 anti-ACAT1 antibody WB image

Western blot: Mouse heart stained with ARG44091 anti-ACAT1 antibody at $0.5\ \mu\text{g}/\text{mL}$ dilution.



ARG44091 anti-ACAT1 antibody IHC-P image

Immunohistochemistry: Human placenta stained with ARG44091 anti-ACAT1 antibody at $2\ \mu\text{g}/\text{mL}$ dilution.



ARG44091 anti-ACAT1 antibody IHC-P image

Immunohistochemistry: Human non-small cell lung stained with ARG44091 anti-ACAT1 antibody at 2 µg/ml dilution.