

## ARG44091 anti-ACAT1 antibody

Package: 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 <sup>6</sup> 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 <sub>2</sub> HPO <sub>4</sub> , 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.

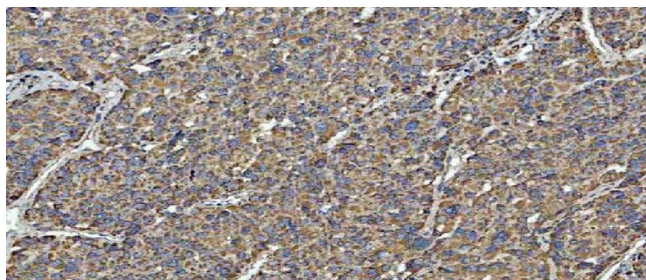
Note

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

## Bioinformation

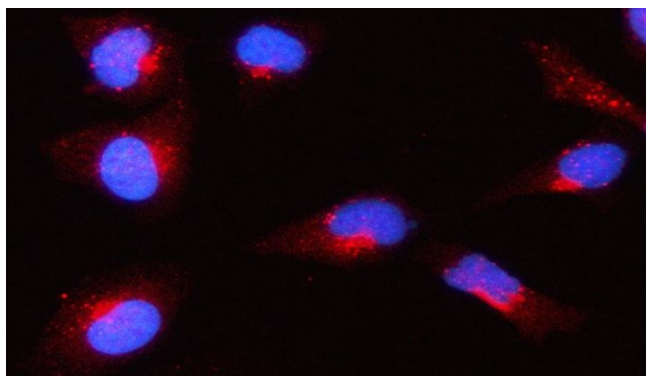
Gene Symbol	ACAT1
Gene Full Name	acetyl-CoA acetyltransferase 1
Background	This gene encodes a mitochondrially localized enzyme that catalyzes the reversible formation of acetoacetyl-CoA from two molecules of acetyl-CoA. Defects in this gene are associated with 3-ketothiolase deficiency, an inborn error 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



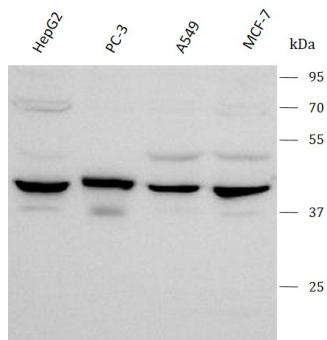
ARG44091 anti-ACAT1 antibody IHC-P image

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



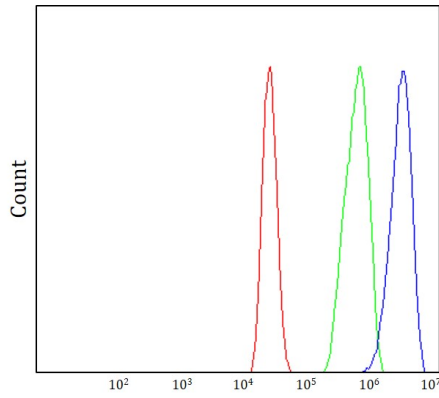
ARG44091 anti-ACAT1 antibody ICC/IF image

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



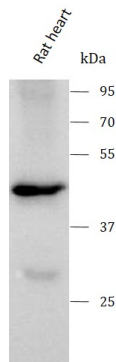
ARG44091 anti-ACAT1 antibody WB image

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



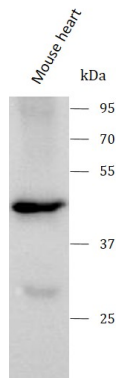
#### ARG44091 anti-ACAT1 antibody FACS image

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



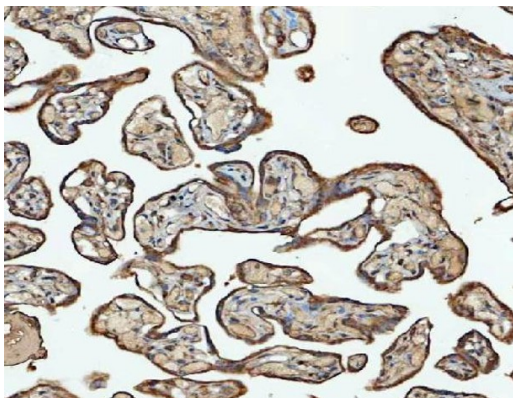
#### ARG44091 anti-ACAT1 antibody WB image

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



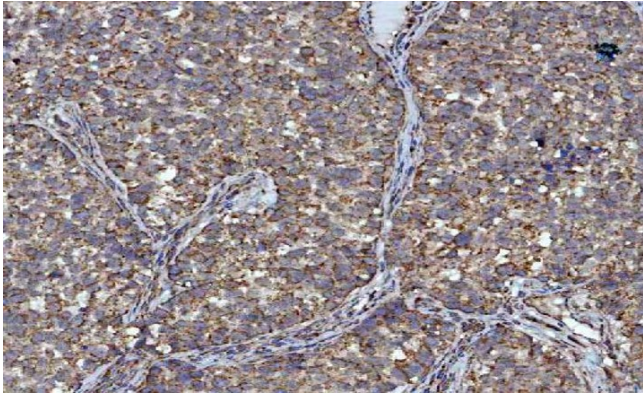
#### ARG44091 anti-ACAT1 antibody WB image

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  $\mu\text{g}/\text{ml}$  dilution.

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