

## ARG57118 anti-ACAT1 antibody [15E5]

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [15E5] recognizes ACAT1
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	15E5
Isotype	IgG1, kappa
Target Name	ACAT1
Species	Human
Immunogen	Recombinant fragment around aa. 34-427 of Human ACAT1
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
	ICC/IF	Assay-dependent
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

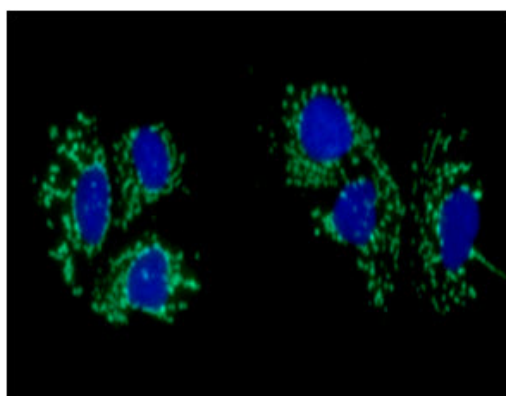
### Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 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. 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

Database links	<a href="#">GeneID: 38 Human</a> <a href="#">Swiss-port # P24752 Human</a>
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).

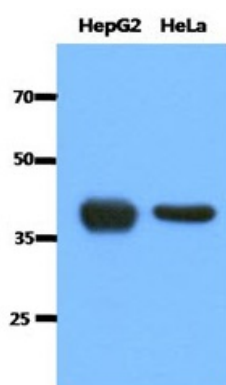
## Images



ARG57118 anti-ACAT1 antibody [15E5] ICC/IF image

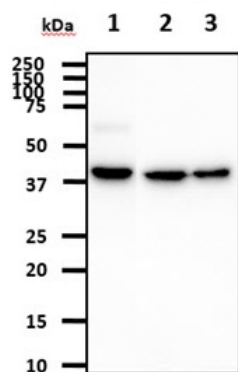
Immunofluorescence: Hep3B cells line stained with ARG57118 anti-ACAT1 antibody [15E5] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



ARG57118 anti-ACAT1 antibody [15E5] WB image

Western blot: 40 µg of HepG2 and HeLa cell lysates stained with ARG57118 anti-ACAT1 antibody [15E5] at 1:1000.



ARG57118 anti-ACAT1 antibody [15E5] WB image

Western blot: 40 µg of 1) Hep3B, 2) 293T, and 3) A431 cell lysates stained with ARG57118 anti-ACAT1 antibody [15E5] at 1:1000.