

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.	

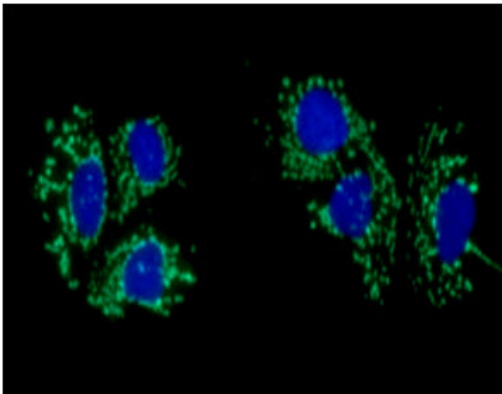
Properties

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	GeneID: 38 Human Swiss-port # P24752 Human
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).

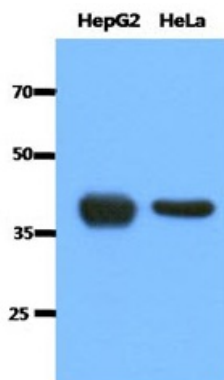
Images



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

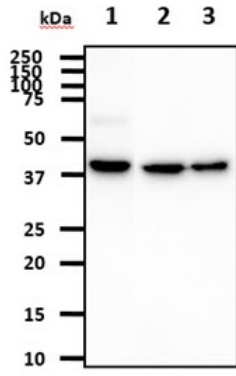
Immunofluorescence: Hep3B cells line stained with ARG57118 anti-ACAT1 antibody [15E5] at 1:100 (Green).

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