

Mouse anti-Human ACAA1 Monoclonal Antibody | anti-ACAA1 antibody

ACAA1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48247	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

ACAA1; Monoclonal Antibody; ACAA1 antibody; 3-ketoacyl-CoA thiolase peroxisomal; ACAA; PTHIO; THIO; 3-ketoacyl-CoA thiolase; peroxisomal; anti-ACAA1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	AT9E5
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	424
Applicable Applications for anti-ACAA1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human ACAA1 (27-424aa) purified from E. coli
Clone Note	Anti-human ACAA1 mAb, clone AT9E5, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ACAA1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of ACAA1 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ACAA1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACAA1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1 : HepG2 cell lysate Lane 2 : LnCap cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-ACAA1 antibody	ACAA1 is a member of the thiolase family of enzymes and is involved in lipid metabolism. This protein is localized to the peroxisome and catalyzes the conversion of acyl-CoA and acetyl-CoA to 3-oxoacyl-CoA in the fatty acid oxidation pathway. ACAA1 shows high enzymatic activity in liver, kidney, intestine and white adipose tissue in rats. Deficiency of this enzyme leads to pseudo-Zellweger syndrome.
Product Categories/Family for anti-ACAA1 antibody	Signal Transduction; Metabolism
References	Bour A., et al. (1991) Biochim Biophys Acta. 1090 (1): 43-51.; Patel S., et al. (2003) Eur Respir J. 22 (5): 755-60.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501853
NCBI GeneID	30
NCBI Accession #	NP_001598
NCBI GenBank Nucleotide #	NM_001607.3
UniProt Accession #	P09110; Q96CA6; G5E935
Molecular Weight	34,665 Da
NCBI Official Full Name	3-ketoacyl-CoA thiolase, peroxisomal isoform a
NCBI Official Synonym Full Names	acetyl-CoA acyltransferase 1
NCBI Official Symbol	ACAA1
NCBI Official Synonym Symbols	ACAA; THIO; PTHIO
NCBI Protein Information	3-ketoacyl-CoA thiolase, peroxisomal
UniProt Protein Name	3-ketoacyl-CoA thiolase, peroxisomal
UniProt Gene Name	ACAA1
UniProt Synonym Gene Names	ACAA; PTHIO

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.