

Human ACAA1 antibody

Catalog Number: ATGA0429

PRODUCT INFORMATION

Catalog number

ATGA0429

Clone No.

AT9E5

Product type

Monoclonal Antibody

UnitProt No.

P09110

NCBI Accession No.

NP_001598

Alternative Names

3-ketoacyl-CoA thiolase peroxisomal, ACAA, PTHIO, THIO, 3-ketoacyl-CoA thiolase, peroxisomal

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human ACAA1 (27-424aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

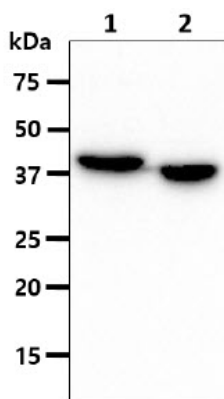
ACAA1 is a member of the thiolase family of enzymes and is involved in lipid metabolism. This protein is localized to the peroxisome and catalyzes the conversion of acyl-CoA and acetyl-CoA to 3-oxoacyl-CoA in the fatty acid oxidation pathway. ACAA1 shows high enzymatic activity in liver, kidney, intestine and white adipose tissue in rats. Deficiency of this enzyme leads to pseudo-Zellweger syndrome.

General 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.

DATA

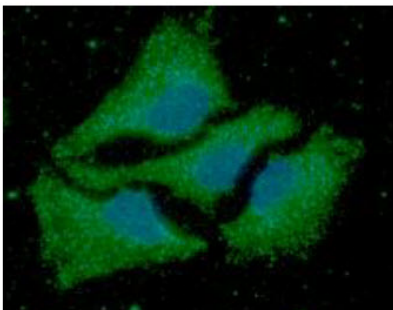
Western blot analysis (WB)



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

Immunocytochemistry/Immunofluorescence (ICC/IF)



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).