

## Monoclonal anti-human ACAA1 antibody (clone AT9E5)

Mouse IgG<sub>2b</sub>, κ

Cat. No. IBATGA0429

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

**NCBI Accession No.:** NP\_001598

**Isotype:** Mouse IgG<sub>2b</sub> heavy chain and κ light chain

**Clone:** 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..

**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.

**Concentration:** 1 mg/ml

**Form:** Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

**Storage:** Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

**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.

**Application:** ELISA, WB, Flow cytometry, ICC/IF

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

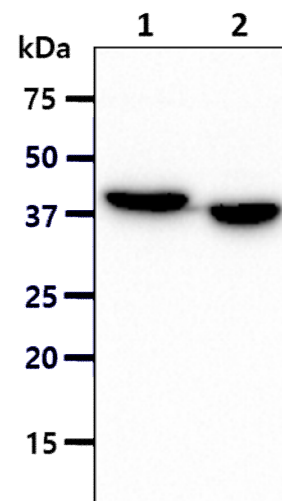
# Product information

## Western blot analysis

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.

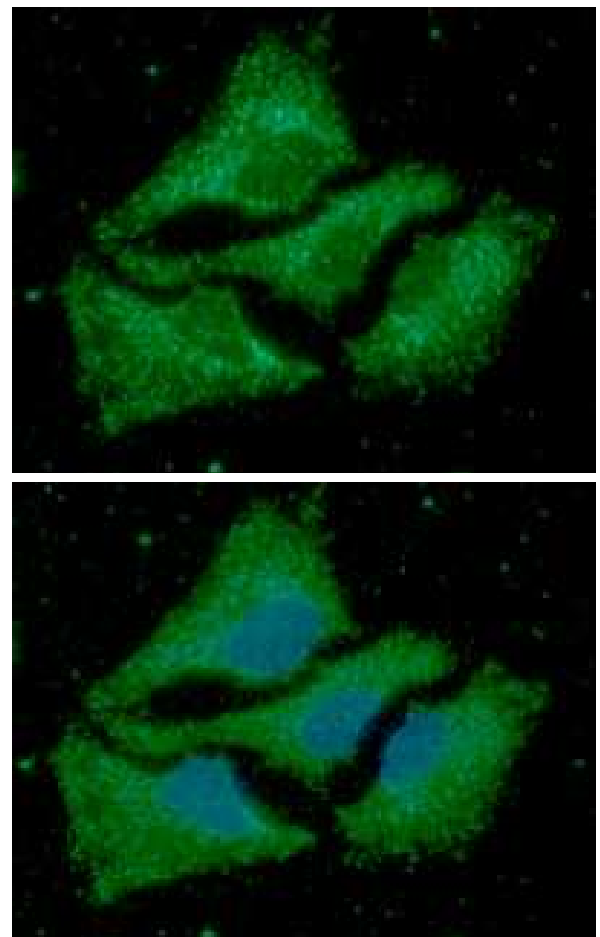
Lane 1 : HepG2 cell lysate

Lane 2 : LnCap cell lysate

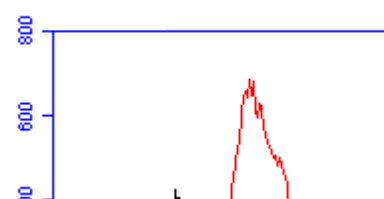


## ICC/IF analysis

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).



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## Flow cytometry

Flow cytometry analysis of ACAA1 in Jurkat cell line, staining at 2-5ug for  $1 \times 10^6$  cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

## 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.

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