

Monoclonal anti-human ACADS antibody (clone AT8B10)

Mouse IgG_{2a}, κ

Cat. No. IBATGA0459

Immunogen: Recombinant human ACADS (25-412aa) purified from *E. coli*

NCBI Accession No.: AAH25963

Isotype: Mouse IgG_{2a} heavy chain and κ light chain

Clone: Anti-human ACADS mAb, clone AT8B10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ACADS protein.

Description: ACADS (Acyl-Coenzyme A dehydrogenase), also known as SCAD or ACAD3, is a tetrameric mitochondrial flavoprotein, which is a member of the acyl-CoA dehydrogenase family. This enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Mutations of ACADS have been associated with fatty acid oxidation defects and metabolic diseases such as short-chain acyl-CoA dehydrogenase deficiency (SCAD deficiency).

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.



Manufactured for:

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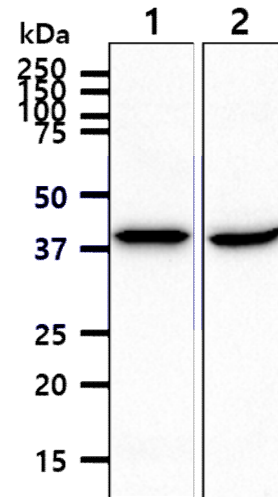
Product information

Western blot analysis

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

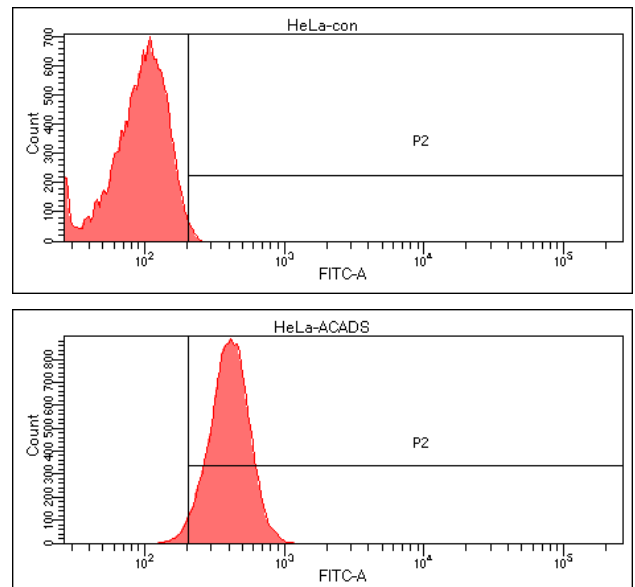
Lane 1 : HepG2 cell lysate

Lane 2 : LnCap cell lysate



Flow cytometry

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

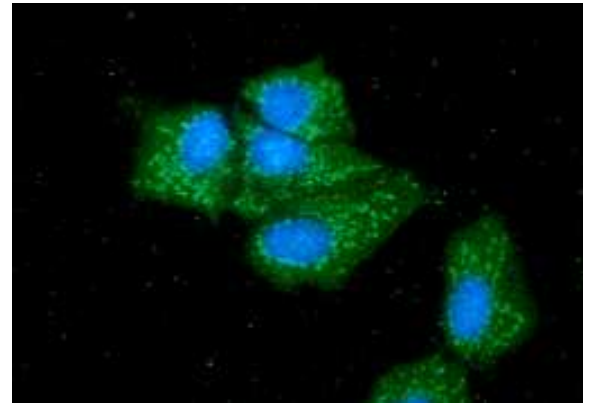
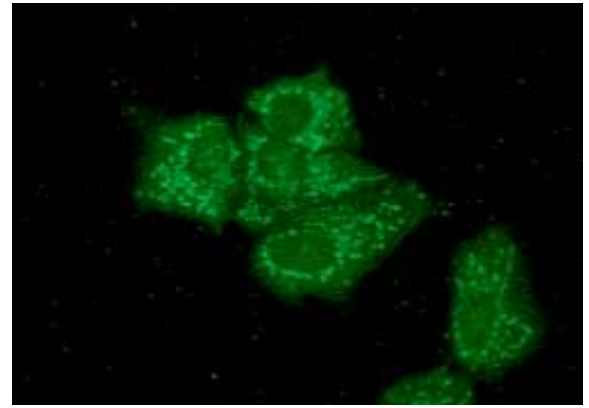


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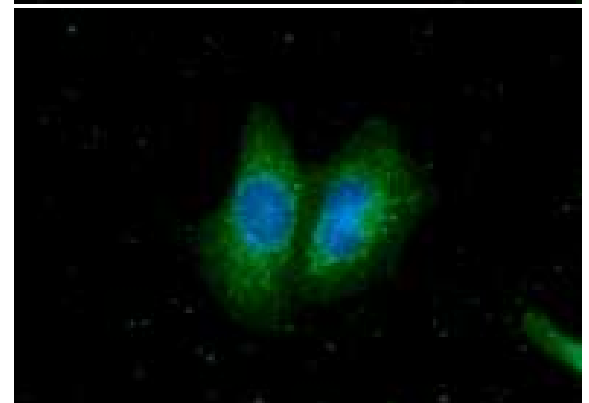
ICC/IF analysis

ICC/IF analysis of ACADS in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ACADS antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



ICC/IF analysis

ICC/IF analysis of ACADS in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ACADS antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



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General references: McAndrew RP., *et al.* (2008) *J Biol Chem.* **283(14)**: 9435-43.
Tafti M., *et al.* (2003) *Nat Genet.* **34(3)**: 320-5.

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