

# Human ACADS antibody

Catalog Number: ATGA0459

## PRODUCT INFORMATION

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**Catalog number**

ATGA0459

**Clone No.**

AT8B10

**Product type**

Monoclonal Antibody

**UnitProt No.**

P16219

**NCBI Accession No.**

AAH25963

**Alternative Names**

Acyl-Coenzyme A dehydrogenase, ACAD3, SCAD, Acyl-Coenzyme A dehydrogenase Acyl Coenzyme A dehydrogenase, C2 to C3 short chain, Acyl-CoA dehydrogenase, C2 to C3 short chain, Acyl-CoA dehydrogenase, short chain, Acyl-Coenzyme A dehydrogenase, short chain, AI196007, Bcd-1, Bcd1, Butyryl CoA dehydrogenase, EC 1.3.99.2, Short chain acyl CoA dehydrogenase, unsaturated acyl CoA reductase, Short-chain specific acyl-CoA dehydrogenase, mitochondrial.

## PRODUCT SPECIFICATION

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**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 ACADS (25-412aa) purified from E. coli

**Isotype**

IgG2a kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity.

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Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

## 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

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).

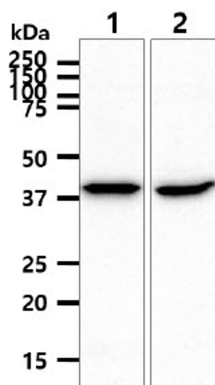
### General References

McAndrew RP., et al. (2008) J Biol Chem. 283(14): 9435-43.

Tafti M., et al. (2003) Nat Genet. 34(3): 320-5.

## DATA

### Western blot analysis (WB)

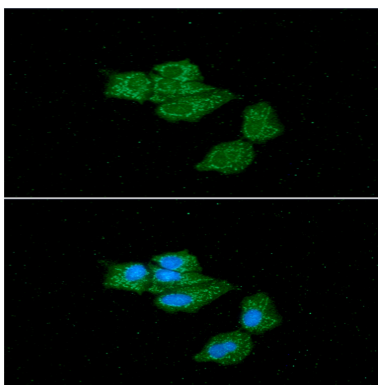


The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACADS antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1 : HepG2 cell lysate

Lane 2 : LnCap cell lysate

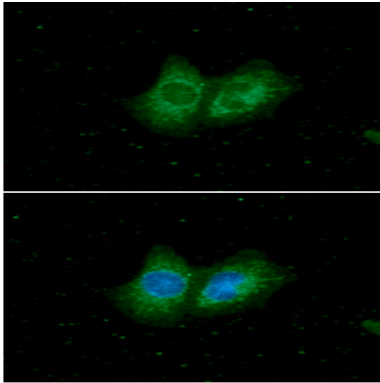
### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of ACADS in Hep3B cells. The cell was stained with ATGA0459 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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ICC/IF analysis of ACADS in A549 cells. The cell was stained with ATGA0459 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).