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# **Human ACADS antibody**

Catalog Number: ATGA0459

### PRODUCT INFORMATION

# 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, Al196007, 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**

# **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**

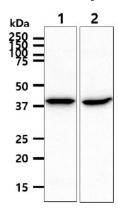
ACADS (Acyl-Coenzyme A dehydrogenase), also known as SCAD or ACAD3, is a tetrameric mitochondrial flavoprotein, which is a member of the acyl-CoA dehydrogenase family. This enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Mutations of ACADS have been associated 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**

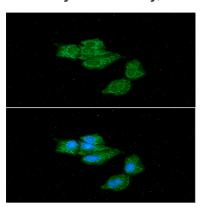
# Western blot analysis (WB)



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)



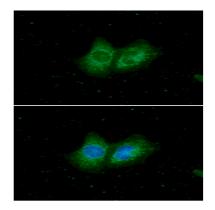
ICC/IF analysis of ACADS in Hep3B cells. The cell was stained with ATGA0459 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



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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).

