

# Human ACSF2 antibody

Catalog Number: ATGA0464

## PRODUCT INFORMATION

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**Catalog number**

ATGA0464

**Clone No.**

AT18B4

**Product type**

Monoclonal Antibody

**UnitProt No.**

Q96CM8

**NCBI Accession No.**

NP\_079425

**Alternative Names**

Acyl-CoA synthetase family member 2 isoform 2, ACSMW, AVYV493

## 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 ACSF2 (42-615aa) purified from E. coli

**Isotype**

IgG1 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. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

**Storage**

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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

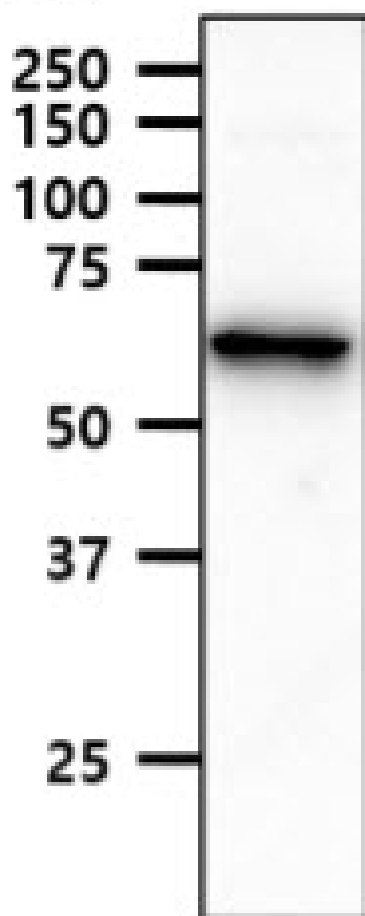
ACSF2 also known as Acyl-CoA synthetase family member 2. Acyl-CoA synthetases are a family of enzymes that catalyze the thioesterification of fatty acids with coenzymeA to form activated intermediates, which play a fundamental role in lipid metabolism and homeostasis of lipid-related processes. ACSF2 are required for complex lipid synthesis, energy production via beta-oxidation, protein acylation and fatty-acid dependent transcriptional regulation. ACSF2 are also necessary for fatty acid import into cells by the process of vectorial acylation.

### General References

Black PN., et al.(2007) *Biochim Biophys Acta*. 1771(9): 1246-53.  
Watkins P.A., et al. (2007) *J Lipid Res*. 48(12): 2736-50.

## DATA

### Western blot analysis (WB)

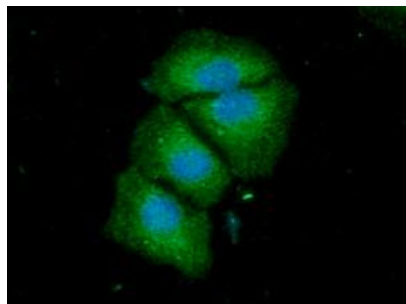
**kDa**

The HepG2 cell lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACSF2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of ACSF2 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ACSF2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green)