SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

**[ Primary Antibody ]**

# Rabbit Anti-Acetoacetyl-CoA synthetase antibody

**Catalog Number: SL11383R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | Acetoacetyl-CoA synthetase |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human AACS: 182-228/672 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | WB=1:500-2000<br>IHC-P=1:100-500<br>IHC-F=1:100-500<br>ICC/IF=1:100-500<br>IF=1:100-500<br>ELISA=1:5000-10000 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | (predicted: Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Sheep) |
| **Predicted MW.:** | 75kDa |
| **Subcellular Location:** | cytoplasmic |
| **Background:** | ACSF1 is a 672 amino acid protein belonging to the ATP-dependent AMP-binding enzyme family. Encoded by a gene that maps to human chromosome 12q24.31, ACSF1 is highly expressed in kidney, heart and brain, and shows similar neural expression as HMGCR (3-hydroxy-3-methylglutaryl-CoA reductase). Existing as three alternatively spliced isoforms, ACSF1 participates in ATP binding, ligase activity, acetoacetate-CoA ligase activity and nucleotide binding. The ACSF1 promoter is a known PPAR?target gene, with the nuclear receptor recruited to the ACSF1 promoter by direct interaction with stimulating protein-1 (Sp1). ACSF1 activates acetoacetate and is highly regulated by modulators that affect HMGCR and cholesterol biosynthesis. |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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| | **Function:** Activates acetoacetate to acetoacetyl-CoA. May be involved in utilizing ketone body for the fatty acid-synthesis during adipose tissue development<br>**Subcellular Location:** Cytoplasm, cytosol<br>**Tissue Specificity:** Highly expressed in kidney, heart and brain, but low in liver.<br>**Similarity:** Belongs to the ATP-dependent AMP-binding enzyme family.<br>**Database links:**<br>**Entrez Gene:** 65985 Human<br>**Entrez Gene:** 78894 Mouse<br>**Entrez Gene:** 65984 Rat<br>Omim: 614364 Human<br>**SwissProt:** Q86V21 Human<br>**SwissProt:** Q9D2R0 Mouse<br>**SwissProt:** Q9JMI1 Rat<br>**Unigene:** 656073 Human<br>**Unigene:** 431573 Mouse<br>**Unigene:** 9215 Rat |

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