



Rabbit Anti-Acetoacetyl-CoA synthetase antibody

SL11383R

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| Product Name: | Acetoacetyl-CoA synthetase |
| Chinese Name: | 脂肪酰辅酶A家族成员1抗体 |
| Alias: | Acetoacetyl-CoA synthetase; ACSF1; AACs; Acyl-CoA synthetase family member 1; Protein sur-5 homolog; AACs_HUMAN. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep, |
| Applications: | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 75kDa |
| Cellular localization: | cytoplasmic |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human AACs:182-228/672 |
| Isotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 癆 for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20癆. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 癆. |
| PubMed: | PubMed |
| Product Detail: | 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 γ 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.

Function:

Activates acetoacetate to acetoacetyl-CoA. May be involved in utilizing ketone body for the fatty acid-synthesis during adipose tissue development

Subcellular Location:

Cytoplasm, cytosol

Tissue Specificity:

Highly expressed in kidney, heart and brain, but low in liver.

Similarity:

Belongs to the ATP-dependent AMP-binding enzyme family.

SWISS:

Q86V21

Gene ID:

65985

Database links:

[Entrez Gene: 65985](#) Human

[Entrez Gene: 78894](#) Mouse

[Entrez Gene: 65984](#) Rat

[Omid: 614364](#) Human

[SwissProt: Q86V21](#) Human

[SwissProt: Q9D2R0](#) Mouse

[SwissProt: Q9JMI1](#) Rat

[Unigene: 656073](#) Human

[Unigene: 431573](#) Mouse

[Unigene: 9215](#) Rat

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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