

Acetoacetyl-CoA synthetase Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54479

Specification

Acetoacetyl-CoA synthetase Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession Q86V21

Reactivity
Host
Rabbit
Rabbit
Reactivity
Rat, Pig, Dog, Bovine
Rabbit

Clonality Polyclonal Calculated MW 75 KDa Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human AACS

Epitope Specificity 182-228/672

Purity
affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cytoplasm, cytosol

SIMILARITY

Belongs to the ATP-dependent

AMP-binding enzyme family.

Important Note

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

Background Descriptions

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.

Acetoacetyl-CoA synthetase Polyclonal Antibody - Additional Information

Gene ID 65985

Other Names

Acetoacetyl-CoA synthetase, 6.2.1.16, Acyl-CoA synthetase family member 1, Protein sur-5 homolog, AACS, ACSF1

Target/Specificity

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



Dilution

WB~~1:1000<br \><span class
="dilution_IHC-P">IHC-P~~N/A<br \><span class
="dilution_IHC-F">IHC-F~~N/A<br \><span class
="dilution_IF">IF~~1:50~200<br \>ICC~~N/A<br \>ICC~~N/A<br \>ICC~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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 °C.

Acetoacetyl-CoA synthetase Polyclonal Antibody - Protein Information

Name AACS

Synonyms ACSF1

Function

Converts acetoacetate to acetoacetyl-CoA in the cytosol (By similarity). Ketone body-utilizing enzyme, responsible for the synthesis of cholesterol and fatty acids (By similarity).

Cellular Location

Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9JMI1}

Tissue Location

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

Acetoacetyl-CoA synthetase Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Acetoacetyl-CoA synthetase Polyclonal Antibody - Images