

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	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	75 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human AACS
Epitope Specificity	182-228/672
Isotype	IgG
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
IHC-P~~N/A
IHC-F~~N/A
IF~~1:50~200
ICC~~N/A
E~~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 AAC5

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](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Acetoacetyl-CoA synthetase Polyclonal Antibody - Images