

## Acetoacetyl-CoA synthetase Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54479

## **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	75144
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 SUBCELLULAR LOCATION SIMILARITY Important Note Background Descriptions	<ul> <li>0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.</li> <li>Cytoplasm, cytosol</li> <li>Belongs to the ATP-dependent AMP-binding enzyme family.</li> <li>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.</li> <li>ACSF1 is a 672 amino acid protein belonging to the ATP-dependent</li> <li>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</li> <li>(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.</li> </ul>

## **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=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-50 0,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

## **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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.