

# ACSS1 (Acetyl-K642) Polyclonal Antibody

Catalog # AP63282

## Product Information

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Application	WB
Primary Accession	<a href="#">Q9NUB1</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	74857

## Additional Information

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Gene ID	84532
Other Names	Acetyl-coenzyme A synthetase 2-like, mitochondrial (EC 6.2.1.1) (Acetate--CoA ligase 2) (Acetyl-CoA synthetase 2) (AceCS2) (Acyl-CoA synthetase short-chain family member 1)
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

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Name	ACSS1
Synonyms	ACAS2L, KIAA1846
Function	Catalyzes the synthesis of acetyl-CoA from short-chain fatty acids (PubMed: <a href="#">16788062</a> ). Acetate is the preferred substrate (PubMed: <a href="#">16788062</a> ). Can also utilize propionate with a much lower affinity (By similarity). Provides acetyl-CoA that is utilized mainly for oxidation under ketogenic conditions (By similarity). Involved in thermogenesis under ketogenic conditions, using acetate as a vital fuel when carbohydrate availability is insufficient (By similarity).
Cellular Location	Mitochondrion matrix

## Background

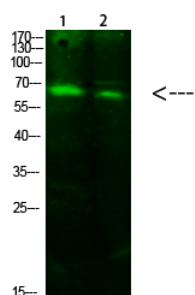
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Important for maintaining normal body temperature during fasting and for energy homeostasis. Essential

for energy expenditure under ketogenic conditions (By similarity). Converts acetate to acetyl-CoA so that it can be used for oxidation through the tricarboxylic cycle to produce ATP and CO(2).

## Images

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Western Blot analysis of 1,293T 2, hela cells using primary antibody diluted at 1:1000(4°C overnight). Secondary antibody : Goat Anti-rabbit IgG IRDye 800( diluted at 1:5000, 25°C, 1 hour)

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