10320 Camino Santa Fe, Suite G
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ACSS1 (Acetyl-K642) Polyclonal Antibody
Catalog # AP63282

Specification

ACSS1 (Acetyl-K642) Polyclonal Antibody - Product Information

Application	**WB**
Primary Accession	Q9NUB1
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**

ACSS1 (Acetyl-K642) Polyclonal Antibody - Additional Information

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℃

ACSS1 (Acetyl-K642) Polyclonal Antibody - Protein Information

Name ACSS1

Synonyms ACAS2L, KIAA1846

Function
Catalyzes the synthesis of acetyl-CoA from short-chain fatty acids (PubMed:16788062). Acetate is the preferred substrate (PubMed:16788062). 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

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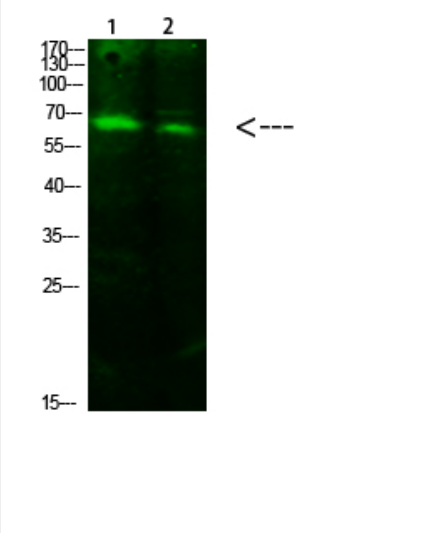
ACSS1 (Acetyl-K642) Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ACSS1 (Acetyl-K642) Polyclonal Antibody - Images



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)

ACSS1 (Acetyl-K642) Polyclonal Antibody - Background

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).