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**Product Name: ACSS1 (Acetyl-K642) Rabbit Polyclonal Antibody****Catalog #: APRab06169**

For research use only.

**Summary**

|                      |   |
|----------------------|---|
| <b>Description</b>   | Rabbit polyclonal Antibody  |
| <b>Host</b>          | Rabbit  |
| <b>Application</b>   | WB,ELISA  |
| <b>Reactivity</b>    | Human,Mouse,Rat   |
| <b>Conjugation</b>   | Unconjugated  |
| <b>Modification</b>  | Acetylated  |
| <b>Isotype</b>       | IgG   |
| <b>Clonality</b>     | Polyclonal  |
| <b>Form</b>          | Liquid  |
| <b>Concentration</b> | 1mg/ml  |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.                       |
| <b>Shipping</b>      | Ice bags  |
| <b>Buffer</b>        | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| <b>Purification</b>  | Affinity purification   |

**Application**

**Dilution Ratio** WB 1:500-1:2000,ELISA 1:10000-1:20000

**Molecular Weight**

**Antigen Information**

|                          |  |
|--------------------------|--|
| <b>Gene Name</b>         | ACSS1  |
| <b>Alternative Names</b> | 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) |
| <b>Gene ID</b>           | 84532.0  |
| <b>SwissProt ID</b>      | Q9NUB1   |
| <b>Immunogen</b>         | Synthesized Acetyl peptide derived from human ACSS1. at AA range: K642   |

**Background**

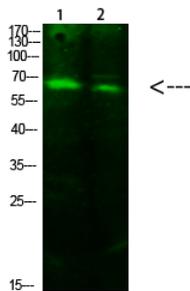
This gene encodes a mitochondrial acetyl-CoA synthetase enzyme. A similar protein in mice plays an important role in the

tricarboxylic acid cycle by catalyzing the conversion of acetate to acetyl CoA. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011],catalytic activity:ATP + acetate + CoA = AMP + diphosphate + acetyl-CoA.,function:Converts acetate to acetyl-CoA so that it can be used for oxidation through the tricarboxylic cycle to produce ATP and CO(2).,sequence caution:Sequencing errors.,similarity:Belongs to the ATP-dependent AMP-binding enzyme family.,

## Research Area

Glycolysis / Gluconeogenesis;Pyruvate metabolism;Propanoate metabolism;

## Image Data



Western Blot analysis of 1,293T 2,hela cells using ACS1 (Acetyl-K642) Rabbit Polyclonal Antibody diluted at 1:1000 (4°C overnight) . Secondary antibody: Goat Anti-rabbit IgG IRDye 800 ( diluted at 1:5000, 25°C, 1 hour)