

Product Datasheet

ACSS2 Antibody

Catalog No: CY5995

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB ICC/IF



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Information

UniProt ID: Q9NR19

All Names: ACSS2; ACSA; ACAS2; AceCS; MYH7B; Acetyl CoA synthetase; Acetate--CoA ligase; Acyl-activating enzyme; Cytoplasmic acetyl coenzyme A synthetase;

Form: Liquid

Storage instructions: Store at +4° C short term. Store at -20° C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 79 kDa

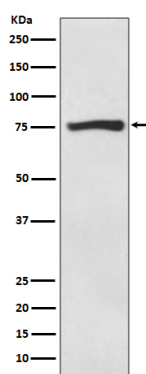
Application

WB 1:500~1:2000

ICC/IF 1:50~1:200

Background

Activates acetate so that it can be used for lipid synthesis or for energy generation. Cytoplasmic acetyl-CoA synthetase (AceCS1) catalyzes the conversion of acetate and CoA to acetyl-CoA. Acetyl-CoA synthesized by AceCS1 is used for fatty acid and lipid biosynthesis. Studies suggest that this enzyme is regulated by sterol regulatory element-binding proteins. It was also shown that this enzyme is acetylated by protein acetyltransferases in cells. SIRT1 deacetylates this enzyme at Lys661 resulting in its activation and the increase of fatty acid synthesis.



Western blot analysis of ACSS2 expression in HepG2 cell lysate.

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