

ACSS2 monoclonal antibody, clone IEF-1

Catalog # MAB19521 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of HepG2 cell lysate with ACSS2 monoclonal antibody.

Specification	
Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human ACSS2.
Immunogen	A synthetic peptide corresponding to human ACSS2.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Affinity purification
lsotype	lgG
Recommend Usage	Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

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Product Information

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

• Western Blot (Cell lysate)

Western blot analysis of HepG2 cell lysate with ACSS2 monoclonal antibody.

- Immunocytochemistry
- Immunofluorescence

Gene Info — ACSS2	
Entrez GenelD	55902
Protein Accession#	<u>Q9NR19</u>
Gene Name	ACSS2
Gene Alias	ACAS2, ACS, ACSA, AceCS, DKFZp762G026, dJ1161H23.1
Gene Description	acyl-CoA synthetase short-chain family member 2
Omim ID	<u>605832</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	This gene encodes a cytosolic enzyme that catalyzes the activation of acetate for use in lipid synth esis and energy generation. The protein acts as a monomer and produces acetyl-CoA from aceta te in a reaction that requires ATP. Expression of this gene is regulated by sterol regulatory eleme nt-binding proteins, transcription factors that activate genes required for the synthesis of cholester ol and unsaturated fatty acids. Alternative splicing results in multiple transcript variants. [provided by RefSeq
Other Designations	OTTHUMP00000030712 OTTHUMP00000030713 OTTHUMP00000030714 OTTHUMP000000 30715 OTTHUMP00000030716 acetate thiokinase acetate-CoA ligase acetyl-CoA synthetase ac etyl-Coenzyme A synthetase 2 (ADP forming) acyl-activating enzyme cytoplasmic acetyl-coenzym e A sy

Pathway

<u>Glycolysis / Gluconeogenesis</u>

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- Metabolic pathways
- Propanoate metabolism
- Pyruvate metabolism
- Reductive carboxylate cycle (CO2 fixation)

Disease

- <u>Cardiovascular Diseases</u>
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease