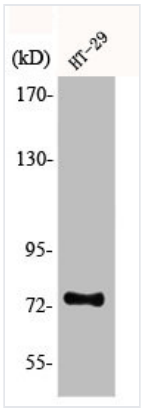
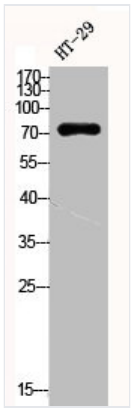
ACSS1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACSS1, Polyclonal Antibody
Full Product Name	ACSS1 Antibody
Product Gene Name	anti-ACSS1 antibody
Product Synonym Names	ACSS1; ACAS2L; KIAA1846; Acetyl-coenzyme A synthetase 2-like; mitochondrial; Acetate--CoA ligase 2; Acetyl-CoA synthetase 2; AceCS2; Acyl-CoA synthetase short-chain family member 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	74,857 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (24986866..25038818, complement). Location: 20p11.23-p11.21
OMIM	614355
3D Structure	ModBase 3D Structure for Q9NUB1
Immunogen	Synthesized peptide derived from the C-terminal region of human ACSS1.
Immunogen Species	Human
Conjugate	Non-conjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ACSS1 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-ACSS1 antibody	WB: 1:500-1:2000 IHC: 1:100-1:300 ELISA: 1:40000
Related Product Information for anti-ACSS1 antibody	MBS7121756 is an antibody targeting ACSS1. Also known as ACSS1 Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-ACSS1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-ACSS1 antibody
Western Blot analysis of HT29 cells using ACSS1 Polyclonal Antibody



Western Blot (WB) of anti-ACSS1 antibody
Western Blot analysis of HT29 cells using ACSS1 Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACSS1. It may not necessarily be applicable to this product.

NCBI GI #	358248205
NCBI GeneID	84532
NCBI Accession #	NP_001239604.1
UniProt Primary Accession #	Q9NUB1
UniProt Secondary Accession #	Q5TF42; Q8IV99; Q8N234; Q96JI1; Q96JX6; Q9NU28; B3KXL2; B4DJZ3; D3DW48; F5H6F4; F8W7Y1
UniProt Related Accession #	Q9NUB1
GenBank Nucleotide #	NM_001252675.1
NCBI Official Full Name	acetyl-coenzyme A synthetase 2-like, mitochondrial isoform 2
NCBI Official Synonym Full Names	acyl-CoA synthetase short-chain family member 1
NCBI Official Symbol	ACSS1
NCBI Official Synonym Symbols	ACAS2L; ACECS1; AceCS2L
UniProt Protein Name	Acetyl-coenzyme A synthetase 2-like, mitochondrial
UniProt Synonym Protein Names	Acetate--CoA ligase 2; Acetyl-CoA synthetase 2; AceCS2; Acyl-CoA synthetase short-chain family member 1
Protein Family	Acetyl-coenzyme A synthetase
UniProt Gene Name	ACSS1
UniProt Synonym Gene Names	ACAS2L; KIAA1846; AceCS2
UniProt Entry Name	ACS2L_HUMAN
NCBI Protein Information	acetyl-coenzyme A synthetase 2-like, mitochondrial; acetate--CoA ligase 2
NCBI Summary for ACSS1	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]

UniProt Comments for ACSS1	ACSS1: Important for maintaining normal body temperature during fasting and for energy homeostasis. Essential for energy expenditure under ketogenic conditions. Converts acetate to acetyl-CoA so that it can be used for oxidation through the tricarboxylic cycle to produce ATP and CO(2). Belongs to the ATP-dependent AMP-binding enzyme family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 6.2.1.1; Carbohydrate Metabolism - pyruvate; Ligase; Mitochondrial; Carbohydrate Metabolism - glycolysis and gluconeogenesis; Carbohydrate Metabolism - propanoate Chromosomal Location of Human Ortholog: 20p11.21 Cellular Component: mitochondrial matrix Molecular Function: protein binding; acetate-CoA ligase activity; ATP binding; AMP binding Biological Process: acetyl-CoA biosynthetic process from acetate; xenobiotic metabolic process; acetyl-CoA biosynthetic process; propionate biosynthetic process; ethanol oxidation; acetate biosynthetic process
Research Articles on ACSS1	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/acss1/7121756