ACSM1 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	ACSM1, Blocking Peptide
Full Product Name	ACSM1 Antibody (N-term) Blocking Peptide
Product Gene Name	ACSM1 blocking peptide
Product Synonym Gene Name	BUCS1; LAE; MACS1
Product Synonym Names	Acyl-coenzyme A synthetase ACSM1; mitochondrial; Acyl-CoA synthetase medium-chain family member 1; Butyrate--CoA ligase 1; Butyryl-coenzyme A synthetase 1; Lipoate-activating enzyme; Middle-chain acyl-CoA synthetase 1; ACSM1; BUCS1; LAE; MACS1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the N-term region of human ACSM1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	ACSM1 peptide (MBS9228123) is used for blocking the activity of ACSM1 antibody (MBS9214025)
Molecular Weight	23,538 Da
OMIM	614357
Cellular Location	Mitochondrion matrix.
Related Product Information for ACSM1 blocking peptide	Has medium-chain fatty acid:CoA ligase activity with broad substrate specificity (in vitro). Acts on acids from C(4) to C(11) and on the corresponding 3-hydroxy- and 2,3- or 3,4- unsaturated acids (in vitro). Functions as GTP-dependent lipoate- activating enzyme that generates the substrate for lipoyltransferase (By similarity).
Other Notes	Small volumes of ACSM1 blocking peptide 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.
Searchable Terms for ACSM1 purchase	MBS9228123 is a blocking peptide targeting ACSM1. Also known as ACSM1 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACSM1. It may not necessarily be applicable to this product.

NCBI GI #	121940002
NCBI GeneID	116285
NCBI Accession #	Q08AH1.1
UniProt Primary Accession #	Q08AH1
UniProt Secondary Accession #	Q08AH2; Q96A20
UniProt Related Accession #	Q08AH1
NCBI Official Full Name	Acyl-coenzyme A synthetase ACSM1, mitochondrial
NCBI Official Synonym Full Names	acyl-CoA synthetase medium-chain family member 1
NCBI Official Symbol	ACSM1

NCBI Official Synonym Symbols	BUCS1; MACS1
UniProt Protein Name	Acyl-coenzyme A synthetase ACSM1, mitochondrial
UniProt Synonym Protein Names	Acyl-CoA synthetase medium-chain family member 1; Butyrate--CoA ligase 1; Butyryl-coenzyme A synthetase 1; Lipoate-activating enzyme; Middle-chain acyl-CoA synthetase 1
Protein Family	Acyl-coenzyme A synthetase
UniProt Gene Name	ACSM1
UniProt Synonym Gene Names	BUCS1; LAE; MACS1
UniProt Entry Name	ACSM1_HUMAN
NCBI Protein Information	acyl-coenzyme A synthetase ACSM1, mitochondrial
UniProt Comments for ACSM1	ACSM1: Has medium-chain fatty acid:CoA ligase activity with broad substrate specificity (in vitro). Acts on acids from C(4) to C(11) and on the corresponding 3-hydroxy- and 2,3- or 3,4- unsaturated acids (in vitro). Functions as GTP-dependent lipoate- activating enzyme that generates the substrate for lipoyltransferase. Belongs to the ATP-dependent AMP-binding enzyme family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Carbohydrate Metabolism - butanoate; Mitochondrial; Ligase; EC 6.2.1.2 Chromosomal Location of Human Ortholog: 16p12.3 Cellular Component: mitochondrial matrix Molecular Function: acyl-CoA ligase activity; butyrate-CoA ligase activity; CoA-ligase activity Biological Process: xenobiotic metabolic process
Research Articles on ACSM1	**1.** These data are the first to suggest a positive association of the ACSM1 gene with a genetic susceptibility for Schizophrenia and major depressive disorder in the Han Chinese population.
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