

Recombinant Human ACSM2B 293 Cell Lysate

Cat. No. ACSM2B-9071HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for acyl-CoA synthetase medium-chain family member 2B (ACSM2B), nuclear gene encoding mitochondrial protein, transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

[ACSM2B acyl-CoA synthetase medium-chain family member 2B \[Homo sapiens \]](#)

Official Symbol

ACSM2B

Synonyms

ACSM2B; acyl-CoA synthetase medium-chain family member 2B; ACSM2, acyl CoA synthetase medium chain family member 2; acyl-coenzyme A synthetase ACSM2B, mitochondrial; HXMA; HYST1046; xenobiotic/medium chain fatty acid:CoA ligase; butyrate--CoA ligase 2B; butyryl-coenzyme A synthetase 2B; middle-chain acyl-CoA synthetase 2B; xenobiotic/medium-chain fatty acid:CoA ligase; acyl-CoA synthetase medium-chain family member 2; xenobiotic/medium-chain fatty acid-CoA ligase HXM-A; ACSM2;

Gene ID

[348158](#)

mRNA Refseq

[NM_001105069](#)

Protein Refseq

[NP_001098539](#)

MIM

[614359](#)

UniProt ID

[Q68CK6](#)

**Chromosome
Location**

16p12.3

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Pathway

Amino Acid conjugation, organism-specific biosystem; Biological oxidations, organism-specific biosystem; Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem; Conjugation of benzoate with glycine, organism-specific biosystem; Conjugation of carboxylic acids, organism-specific biosystem; Conjugation of phenylacetate with glutamine, organism-specific biosystem;

Function

ATP binding; butyrate-CoA ligase activity; ligase activity; metal ion binding; nucleotide binding;

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