

Recombinant Human MCCC1 293 Cell Lysate

Cat. No. MCCC1-4429HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for methylcrotonoyl-Coenzyme A carboxylase 1 (alpha) (MCCC1), nuclear gene encoding mitochondrial protein 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.
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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name [MCCC1 methylcrotonoyl-CoA carboxylase 1 \(alpha\) \[Homo sapiens \]](#)

Official Symbol MCCC1

Synonyms

MCCC1; methylcrotonoyl-CoA carboxylase 1 (alpha); methylcrotonoyl Coenzyme A carboxylase 1 (alpha); methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial; MCCA; MCCase subunit alpha; 3-methylcrotonyl-CoA carboxylase 1; methylcrotonoyl-Coenzyme A carboxylase 1 (alpha); 3-methylcrotonyl-CoA:carbon dioxide ligase subunit alpha; 3-methylcrotonyl-CoA carboxylase biotin-containing subunit; MCC-B; FLJ25545; DKFZp686B20267;

Gene ID [56922](#)

mRNA Refseq [NM_020166](#)

Protein Refseq [NP_064551](#)

MIM [609010](#)

UniProt ID [Q96RQ3](#)


Chromosome Location 3q27.1

Pathway

Branched-chain amino acid catabolism, organism-specific biosystem; Leucine degradation, leucine =>acetoacetate + acetyl-CoA, organism-specific biosystem; Leucine degradation, leucine => acetoacetate + acetyl-CoA, conserved biosystem;

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Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;

Function

ATP binding; biotin binding; biotin carboxylase activity; ligase activity; metal ion binding; methylcrotonoyl-CoA carboxylase activity; nucleotide binding;

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