

Recombinant Human MCAT 293 Cell Lysate

Cat. No. MCAT-4432HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for malonyl CoA:ACP acyltransferase (mitochondrial) (MCAT), nuclear gene encoding mitochondrial protein, transcript variant 2 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

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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	MCAT malonyl CoA:ACP acyltransferase (mitochondrial) [Homo sapiens]
Official Symbol	MCAT
Synonyms	MCAT; malonyl CoA:ACP acyltransferase (mitochondrial); malonyl-CoA-acyl carrier protein transacylase, mitochondrial; fabD; FASN2C; MCT; MT; NET62; mitochondrial malonyltransferase; [Acyl-carrier-protein] malonyltransferase; mitochondrial malonyl CoA:ACP acyltransferase; malonyl-CoA:acyl carrier protein transacylase, mitochondrial; MGC47838;
Gene ID	27349
mRNA Refseq	NM_014507
Protein Refseq	NP_055322
MIM	614479
UniProt ID	Q8IVS2
Chromosome Location	22q13.2
Pathway	Fatty acid biosynthesis, organism-specific biosystem; Fatty acid biosynthesis, conserved biosystem; Metabolic pathways, organism-specific biosystem;

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Function

[acyl-carrier-protein] S-malonyltransferase activity; binding; transferase activity;

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