

## Recombinant Human MUT 293 Cell Lysate

Cat. No. MUT-4054HCL Lot. No. (See product label)

### SPECIFICATION

|                            |   |
|----------------------------|---|
| <b>Species</b>             | Human   |
| <b>Source</b>              | HEK293  |
| <b>Description</b>         | Antigen standard for methylmalonyl Coenzyme A mutase (MUT), 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.   |
| <b>Components</b>          | 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). |
| <b>Size</b>                | 0.1 mg  |
| <b>Storage Instruction</b> | 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.   |
| <b>Applications</b>        | 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

|                            |  |
|----------------------------|--|
| <b>Gene Name</b>           | MUT methylmalonyl CoA mutase [ Homo sapiens ]  |
| <b>Official Symbol</b>     | MUT  |
| <b>Synonyms</b>            | MUT; methylmalonyl CoA mutase; methylmalonyl Coenzyme A mutase; methylmalonyl-CoA mutase, mitochondrial; methylmalonyl-CoA isomerase; MCM;   |
| <b>Gene ID</b>             | 4594   |
| <b>mRNA Refseq</b>         | NM_000255  |
| <b>Protein Refseq</b>      | NP_000246  |
| <b>MIM</b>                 | 609058   |
| <b>UniProt ID</b>          | P22033   |
| <b>Chromosome Location</b> | 6p21   |
| <b>Pathway</b>             | 2-oxobutanoate degradation I, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glyoxylate and dicarboxylate metabolism, organism-specific biosystem; Glyoxylate and dicarboxylate metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; |

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**Function**

cobalamin binding; isomerase activity; metal ion binding; methylmalonyl-CoA mutase activity; modified amino acid binding;

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