Recombinant Human MTRR 293 Cell Lysate

Cat. No. MTRR-4065HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for 5-methyltetrahydrofolate-homocysteine methyltransferase reductase (MTRR), 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.

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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	MTRR 5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Homo sapiens]
Official Symbol	MTRR
Synonyms	MTRR; 5-methyltetrahydrofolate-homocysteine methyltransferase reductase; methionine synthase reductase; cblE; methionine synthase reductase, mitochondrial; [methionine synthase]-cobalamin methyltransferase (cob(II)alamin reducing); MSR; MGC129643;
Gene ID	4552
mRNA Refseq	NM_002454
Protein Refseq	NP_002445
MIM	602568
UniProt ID	Q9UBK8
Chromosome Location	5p15.31
Pathway	Folate Metabolism, organism-specific biosystem; One Carbon Metabolism, organism-specific biosystem;

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Function	FMN binding; NADP binding; [methionine synthase] reductase activity; flavin adenine dinucleotide binding; flavin adenine dinucleotide binding; iron ion binding; oxidoreductase activity; oxidoreductase activity, oxidizing metal ions, NAD or NADP as acceptor;

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