

Recombinant Human KARS 293 Cell Lysate

Cat. No. KARS-5090HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for lysyl-tRNA synthetase (KARS), 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 [KARS lysyl-tRNA synthetase \[Homo sapiens \]](#)

Official Symbol KARS

Synonyms KARS; lysyl-tRNA synthetase; lysine--tRNA ligase; KARS2; lysine tRNA ligase; lysRS; KRS; CMTRIB; KIAA0070;

Gene ID [3735](#)

mRNA Refseq [NM_001130089](#)

Protein Refseq [NP_001123561](#)

MIM [601421](#)

UniProt ID [Q15046](#)

Chromosome Location 16q23.1

Pathway

Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem; Gene Expression, organism-specific biosystem; Mitochondrial tRNA aminoacylation,

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organism-specific biosystem;

Function

ATP binding; ligase activity; lysine-tRNA ligase activity; lysine-tRNA ligase activity;
metal ion binding; nucleic acid binding; nucleotide binding; tRNA binding;

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