

Recombinant Human CARS 293 Cell Lysate

Cat. No. CARS-7845HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for cysteinyl-tRNA synthetase (CARS), transcript variant 1 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 [CARS cysteinyl-tRNA synthetase \[Homo sapiens \]](#)

Official Symbol CARS

Synonyms CARS; cysteinyl-tRNA synthetase; cysteine--tRNA ligase, cytoplasmic; CARS1; cysteine tRNA ligase 1; cytoplasmic; cysteine translase; cysteine tRNA ligase 1, cytoplasmic; CYSRS; MGC:11246;

Gene ID [833](#)

mRNA Refseq [NM_001014437](#)

Protein Refseq [NP_001014437](#)

MIM [123859](#)

UniProt ID [P49589](#)

Chromosome Location 11p15.5

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; tRNA Aminoacylation, organism-specific biosystem;

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Function

ATP binding; ATP binding; cysteine-tRNA ligase activity; cysteine-tRNA ligase activity; cysteine-tRNA ligase activity; ligase activity; metal ion binding; nucleotide binding; protein binding; protein homodimerization activity; protein homodimerization activity; tRNA binding; tRNA binding; tRNA binding;

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