

Recombinant Human CARS 293 Cell Lysate

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

SPECIFICATION

Product Overview

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.

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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 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 transase; 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

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Expression, organism-specific biosystem; tRNA Aminoacylation, organism-specific biosystem;

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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