

Recombinant Human HLCS 293 Cell Lysate

Cat. No. HLCS-5491HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for holocarboxylase synthetase (biotin-(propionyl-Coenzyme A-carboxylase (ATP-hydrolysing)) ligase) (HLCS) 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

HLCS holocarboxylase synthetase (biotin-(propionyl-CoA-carboxylase (ATP-hydrolysing)) ligase) [Homo sapiens]

Official Symbol

HLCS

Synonyms

HLCS; holocarboxylase synthetase (biotin-(propionyl-CoA-carboxylase (ATP-hydrolysing)) ligase); holocarboxylase synthetase (biotin (propionyl Coenzyme A carboxylase (ATP hydrolysing)) ligase) , holocarboxylase synthetase (biotin [propionyl Coenzyme A carboxylase (ATP hydrolysing)] ligase); biotin--protein ligase; HCS; biotin apo-protein ligase; biotin--[acetyl-CoA-carboxylase] ligase; biotin--[methylcrotonoyl-CoA-carboxylase] ligase; biotin--[methylmalonyl-CoA-carboxytransferase] ligase; holocarboxylase synthetase (biotin-(propionyl-Coenzyme A-carboxylase (ATP-hydrolysing)) ligase);

Gene ID

3141

mRNA Refseq

NM_000411

Protein Refseq

NP_000402

MIM

609018

UniProt ID

P50747

Chromosome

21q22.1

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Location	
Pathway	Biotin metabolism, organism-specific biosystem; Biotin metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; biotin-carboxyl carrier protein assembly, organism-specific biosystem;
Function	ATP binding; biotin binding; biotin-[acetyl-CoA-carboxylase] ligase activity; biotin-[methylcrotonoyl-CoA-carboxylase] ligase activity; biotin-[methylmalonyl-CoA-carboxytransferase] ligase activity; biotin-[propionyl-CoA-carboxylase (ATP-hydrolyzing)] ligase activity; biotin-protein ligase activity; biotin-protein ligase activity; enzyme binding; ligase activity; nucleotide binding; protein homodimerization activity;

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