Recombinant Human CYC1 293 Cell Lysate

Cat. No. CYC1-7136HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for cytochrome c-1 (CYC1), nuclear gene encoding mitochondrial protein 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	CYC1 cytochrome c-1 [Homo sapiens]
Official Symbol	CYC1
Synonyms	CYC1; cytochrome c-1; cytochrome c1, heme protein, mitochondrial; UQCR4; complex III subunit 4; complex III subunit IV; cytochrome b-c1 complex subunit 4; ubiquinol-cytochrome-c reductase complex cytochrome c1 subunit;
Gene ID	1537
mRNA Refseq	NM_001916
Protein Refseq	NP_001907
MIM	123980
UniProt ID	P08574
Chromosome Location	8q24
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Cytochrome bc1 complex, organism-specific biosystem; Cytochrome bc1 complex, conserved biosystem; Cytochrome bc1

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	complex respiratory unit, organism-specific biosystem;
Function	electron transporter, transferring electrons from CoQH2-cytochrome c reductase complex and cytochrome c oxidase complex activity; heme binding; metal ion binding;

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