

Recombinant Human POLG2 293 Cell Lysate

Cat. No. POLG2-3047HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for polymerase (DNA directed), gamma 2, accessory subunit (POLG2), 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 POLG2 polymerase (DNA directed), gamma 2, accessory subunit [Homo sapiens]

Official Symbol POLG2

Synonyms

POLG2; polymerase (DNA directed), gamma 2, accessory subunit; DNA polymerase subunit gamma-2, mitochondrial; HP55; MTPOLB; p55; mitochondrial DNA polymerase subunit gamma-2; DNA polymerase gamma accessory 55 kDa subunit; mitochondrial DNA polymerase accessory subunit; mitochondrial DNA polymerase, accessory subunit; POLB; PEOA4; POLGB; POLG-BETA;

Gene ID 11232

mRNA Refseq NM_007215

Protein Refseq NP_009146

MIM 604983

UniProt ID Q9UHN1

Chromosome Location 17q

Pathway

DNA polymerase gamma complex, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;

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Function

ATP binding; DNA binding; DNA-directed DNA polymerase activity; glycine-tRNA ligase activity; identical protein binding; nucleotide binding; nucleotidyltransferase activity; protein binding; single-stranded DNA binding; transferase activity;

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