

Recombinant Human POLD1 293 Cell Lysate

Cat. No. POLD1-3053HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for polymerase (DNA directed), delta 1, catalytic subunit 125kDa (POLD1) 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 [POLD1 polymerase \(DNA directed\), delta 1, catalytic subunit 125kDa \[Homo sapiens \]](#)

Official Symbol POLD1

Synonyms POLD1; polymerase (DNA directed), delta 1, catalytic subunit 125kDa; POLD, polymerase (DNA directed), delta 1, catalytic subunit (125kD); DNA polymerase delta catalytic subunit; CDC2; CDC2 homolog (S. cerevisiae); CDC2 homolog; DNA polymerase subunit delta p125; POLD;

Gene ID [5424](#)

mRNA Refseq [NM_001256849](#)

Protein Refseq [NP_001243778](#)

MIM [174761](#)

UniProt ID [P28340](#)

Chromosome Location 19q13.3

Pathway Base Excision Repair, organism-specific biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Cell Cycle, organism-

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specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; DNA Repair, organism-specific biosystem;

Function

3-5-exodeoxyribonuclease activity; DNA binding; DNA-directed DNA polymerase activity; chromatin binding; hydrolase activity; metal ion binding; nucleotide binding; nucleotidyltransferase activity; protein binding; transferase activity;

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