

Recombinant Human POLA2 293 Cell Lysate

Cat. No. POLA2-3054HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for polymerase (DNA directed), alpha 2 (70kD subunit) (POLA2) 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 POLA2 polymerase (DNA directed), alpha 2 (70kD subunit) [Homo sapiens]

Official Symbol POLA2

Synonyms POLA2; polymerase (DNA directed), alpha 2 (70kD subunit); DNA polymerase alpha subunit B; FLJ21662; DNA polymerase alpha 70 kDa subunit; polymerase (DNA-directed), alpha (70kD); FLJ37250;

Gene ID 23649

mRNA Refseq NM_002689

Protein Refseq NP_002680

UniProt ID Q14181

Chromosome Location 11q13

Pathway Activation of the pre-replicative complex, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; DNA Replication, organism-specific biosystem; DNA Replication, organism-specific biosystem; DNA Replication Pre-Initiation, organism-specific biosystem;

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Function

DNA binding; DNA-directed DNA polymerase activity; molecular_function; protein heterodimerization activity;

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