

Recombinant Human POLR2A 293 Cell Lysate

Cat. No. POLR2A-3037HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for polymerase (RNA) II (DNA directed) polypeptide A, 220kDa (POLR2A) 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 POLR2A polymerase (RNA) II (DNA directed) polypeptide A, 220kDa [Homo sapiens]

Official Symbol POLR2A

Synonyms POLR2A; polymerase (RNA) II (DNA directed) polypeptide A, 220kDa; POLR2, polymerase (RNA) II (DNA directed) polypeptide A (220kD); DNA-directed RNA polymerase II subunit RPB1; POLRA; RPB1; RNA polymerase II subunit B1; DNA-directed RNA polymerase II subunit A; RNA-directed RNA polymerase II subunit RPB1; DNA-directed RNA polymerase III largest subunit; DNA-directed RNA polymerase II largest subunit, RNA polymerase II 220 kd subunit; RPO2; POLR2; RPBh1; RPOL2; RplILS; hsRPB1; hRPB220; MGC75453;

Gene ID 5430

mRNA Refseq NM_000937

Protein Refseq NP_000928

UniProt ID P24928

Chromosome Location 17p13.1

Pathway Abortive elongation of HIV-1 transcript in the absence of Tat, organism-specific

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biosystem; DNA Repair, organism-specific biosystem; Disease, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific biosystem; Eukaryotic Transcription Initiation, organism-specific biosystem; Formation of HIV-1 elongation complex containing HIV-1 Tat, organism-specific biosystem; Formation of HIV-1 elongation complex in the absence of HIV-1 Tat, organism-specific biosystem;

Function

DNA binding; DNA-directed RNA polymerase activity; RNA-directed RNA polymerase activity; metal ion binding; nucleotidyltransferase activity; protein binding; contributes_to protein binding; contributes_to protein kinase activity; transferase activity; ubiquitin protein ligase binding;

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