Recombinant Human POLR2D 293 Cell Lysate

Cat. No. POLR2D-3035HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for polymerase (RNA) II (DNA directed) polypeptide D (POLR2D) 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	POLR2D polymerase (RNA) II (DNA directed) polypeptide D [Homo sapiens]
Official Symbol	POLR2D
Synonyms	POLR2D; polymerase (RNA) II (DNA directed) polypeptide D; DNA-directed RNA polymerase II subunit RPB4; RBP4; RNA polymerase II subunit hsRBP4; RNA polymerase II subunit B4; RNA polymerase II 16 kDa subunit; DNA-directed RNA polymerase II subunit D; DNA-directed RNA polymerase II 16 kDa polypeptide; RPB16; HSRBP4; HSRPB4;
Gene ID	5433
mRNA Refseq	NM_004805
Protein Refseq	NP_004796
MIM	606017
UniProt ID	O15514
Chromosome Location	2q21
Pathway	Abortive elongation of HIV-1 transcript in the absence of Tat, organism-specific biosystem; DNA Repair, organism-specific biosystem; Disease, organism-specific

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	biosystem; Dual incision reaction in TC-NER, 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; Formation of RNA Pol II elongation complex, organism-specific biosystem;
Function	DNA-directed RNA polymerase activity; catalytic activity; nucleotide binding; contributes_to protein kinase activity;

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