Recombinant Human POLE4 293 Cell Lysate

Cat. No. POLE4-3048HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for polymerase (DNA-directed), epsilon 4 (p12 subunit) (POLE4) 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	POLE4 polymerase (DNA-directed), epsilon 4, accessory subunit [Homo sapiens]
Official Symbol	POLE4
Synonyms	p12; YHHQ1; DNA polymerase epsilon subunit 4; DNA polymerase II subunit 4; DNA polymerase epsilon p12 subunit; DNA polymerase epsilon subunit p12; polymerase (DNA-directed), epsilon 4 (p12 subunit)
Gene ID	56655
mRNA Refseq	NM_019896
Protein Refseq	NP_063949
MIM	607269
UniProt ID	Q9NR33
Chromosome Location	2p12
Pathway	Base excision repair, organism-specific biosystem; DNA polymerase epsilon complex, organism-specific biosystem
Function	DNA-directed DNA polymerase activity; protein heterodimerization activity; sequence-

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	specific DNA binding

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