

## Recombinant Human POLE4 293 Cell Lysate

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

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Components</b>	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).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	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.
<b>Applications</b>	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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

<b>Gene Name</b>	POLE4 polymerase (DNA-directed), epsilon 4, accessory subunit [ Homo sapiens ]
<b>Official Symbol</b>	POLE4
<b>Synonyms</b>	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)
<b>Gene ID</b>	<a href="#">56655</a>
<b>mRNA Refseq</b>	<a href="#">NM_019896</a>
<b>Protein Refseq</b>	<a href="#">NP_063949</a>
<b>MIM</b>	<a href="#">607269</a>
<b>UniProt ID</b>	<a href="#">Q9NR33</a>
<b>Chromosome Location</b>	2p12
<b>Pathway</b>	Base excision repair, organism-specific biosystem; DNA polymerase epsilon complex, organism-specific biosystem
<b>Function</b>	DNA-directed DNA polymerase activity; protein heterodimerization activity; sequence-specific DNA binding

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