

Recombinant Human POLK Protein, His-tagged

Cat. No. POLK-763H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This Human POLK Protein was over-expressed as a recombinant protein in E. coli with a plasmid carrying a C-terminal histidine-tagged human DNA polymerase (1-560 aa), and highly purified by several steps of chromatography.
Species	Human
Source	E.coli
ProteinLength	1-560 a.a.
Description	This gene encodes a member of the DNA polymerase type-Y family of proteins. The encoded protein is a specialized DNA polymerase that catalyzes translesion DNA synthesis, which allows DNA replication in the presence of DNA lesions. Human cell lines lacking a functional copy of this gene exhibit impaired genome integrity and enhanced susceptibility to oxidative damage.
Molecular Mass	65 kDa
Purity	> 90% by SDS-PAGE (CBB staining)
Applications	1) Functional studies on translesion DNA synthesis by DNA polymerase kappa 2) Antigen for western blotting and ELISA by anti-Pol kappa antibody
Storage	Sent at 4 centigrade or at -20 centigrade. Upon arrival, centrifuge briefly and store at -20 centigrade or at -80 centigrade for longer storage.

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Concentration	3.2 mg/mL as measured by BCA method
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Storage Buffer	0.2 M NaCl, 10 mM sodium phosphate buffer (pH 7.0), 50% glycerol
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GENE INFORMATION

Gene Name	POLK
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Official Symbol	POLK DNA polymerase kappa [Homo sapiens (human)]
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Synonyms	POLK; DNA polymerase kappa; DINP; POLQ; DINB1; DNA polymerase kappa; polymerase (DNA directed) kappa; EC 2.7.7.7
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Gene ID	51426
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mRNA Refseq	NM_016218
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Protein Refseq	NP_057302
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MIM	605650
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UniProt ID	Q9UBT6
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