

Recombinant Full Length Human POLK Protein, GST-tagged

Cat. No. POLK-389HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human POLK full-length ORF (AAH50718, 1 a.a. - 472 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	472 amino acids
Description	External and internal DNA-damaging agents continually threaten the integrity of genetic material in cells. Although a variety of repair mechanisms exist to remove the resulting lesions, some lesions escape repair and block the replication machinery. Members of the Y family of DNA polymerases, such as POLK, permit the continuity of the replication fork by allowing replication through such DNA lesions. Each Y family polymerase has a unique DNA-damage bypass and fidelity profile. POLK is specialized for the extension step of lesion bypass.
Molecular Mass	77.66 kDa
AA Sequence	MDSTKEKCDS YKDDLLLRMG LNDNKAGMEG LDKEKINKII MEATKGSRFY GNELKKEKQV NQRIENMMQQ KAQITSQQLR KAQLQVDRFA MELEQSRNLS NTIVHIDMDA FYAAVEMRDN PELKDKPIAV GSMSMLSTSN YHARRFGVRA AMPGFIAKRL CPQLIIVPPN FDKYRAVSKE VKEILADYDP NFMAMSLDEA YLNITKHL EE RQNWPE DKRR YFIKMGSSVE NDNPGKEV NK LSEHERSISP LLFEESPSDV QPPGDPFQVN FEEQNNPQIL QNSVVFGTSA QEVVKEIRFR

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IEQKTTLTAS AGIAPNTMLA KVCSDKNKPN GQYQILPNRQ AVMDFIKDLP
IRKVSGIGKV TEKMLKALGI ITCTELYQQR ALLSLLFSET SWHYFLHISL
GLGSTHLTRD GERKSMSVER TFSEINKAEE QYSLCQELCS ELAQDLQKER
LKVLYFDMVS LVFKFFNSKM LP

Purity

Enzyme-linked Immunoabsorbent Assay; Western Blot; Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

POLK polymerase (DNA directed) kappa [Homo sapiens (human)]

Official Symbol

POLK

Synonyms

POLK; DINP; POLQ; DINB1; polymerase (DNA directed) kappa; DNA polymerase kappa; EC 2.7.7.7

Gene ID

51426

mRNA Refseq

NM_016218

Protein Refseq

NP_057302

MIM

605650

UniProt ID

Q9UBT6

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