

Recombinant Human POLK Protein, His-tagged

Cat. No. POLK-94H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human POLK Protein, fused to His-tag, was expressed in E. coli.
Species	Human
Source	E.coli
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. Mutations in this gene that impair enzyme activity may be associated with prostate cancer in human patients.
Form	0.2 M NaCl, 10 mM sodium phosphate buffer (pH 7.0), 50% glycerol.
Molecular Mass	64.9 kDa
AA Sequence	MDSTKEKCDSYKDDLLLRMGLNDNKAGMEGLDKEKINKIIMEATKGSRYFGNELKKE KQVQNQRIENMMQQAQITSQQLRKAQLQVDRFAMELEQSRNLSNTIVHIDMDAFYA AVEMRDNPCLKDKPIAVGSMMLSTSNIYHARRFGVRAAMPGFIAKRLCPQLIIVPPN FDKYRAVSKEVKEILADYDPNFMAMSLDEAYLNITKHLEERQNWPEDKRRYFIKMGS SVENDNPGKEVNKLSEHERSISPLLFEESPSDVQPPGDPFQVNFEEQNNPQILQNS VVFGTSAQEVVKEIRFRIEQKTTLTASAGIAPNTMLAKVCSDKNKPNGQYQILPNRQA VMDFIKDLPIRKVSGIGKVTEKMLKALGIITCTELYQQRALLSLFSETSWHYFLHISLG LGSTHLTRDGERKSMSVERTFSEINKAEEQYSLCQELCSELAQDLQKERLKGRTVTI

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KLKNVNFEVKTRASTVSSVSTAEEIFAIAKELLKTEIDADFPHPRLRLMGVRISFP
NEEDRKHQQRSIIGFLQAGNQALSATECTLEKTDKDKFVKPLELEHHHHHH

Storage

Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration

0.2 mg/ml

GENE INFORMATION

Gene Name

POLK DNA polymerase kappa [Homo sapiens (human)]

Official Symbol

POLK

Synonyms

DINP; POLQ; DINB1

Gene ID

51426

mRNA Refseq

NM_001345921

Protein Refseq

NP_001332850

MIM

605650

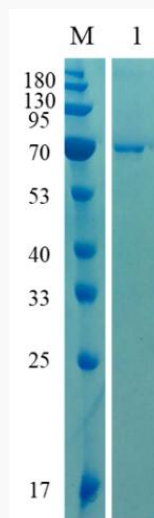
UniProt ID

Q9UBT6

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SDS-PAGE

Reducing 12% SDS-PAGE analysis profile of purified POLK (CBB stained).

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