

Recombinant Human POLK Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. POLK-4176H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	POLK MS Standard C13 and N15-labeled recombinant protein (NP_057302) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	98.6 kDa
AA Sequence	MDSTKEKCDSYKDDLLLRMGLNDNKAGMEGLDKEKINKIIMEATKGSRFYGNELKKE KQVNQRIENMMQQAQITSQQLRKAQLQVDRFAMELEQSRNLSNTIVHIDMDAFYA AVEMRDNPCLKDKPIAVGSMMLSTSNYHARRFGVRAAMPGFIAKRLCPQLIIVPPN FDKYRAVSKEVKEILADYDPNFMAMSLDEAYLNITKHLEERQNPEDKRRYFIKMGS SVENDNPGKEVNKLSEHERSISPLLFEESPSDVQPPGDPFQVNFEEQNNPQILQNS VVFGTSAQEVVKEIRFRIEQKTTLTASAGIAPNTMLAKVCSDKNKPNGQYQILPNRQA VMDFIKDLPIRKVSGIGKVTEKMLKALGIITCTELYQQRALLSLFSETSWHYFLHISLG

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LGSTHLTRDGERKSMSVERTFSEINKAEEQYSLCQELCSELAQDLQKERLKGRTVTI
 KLKNVNFVVKTRASTVSSVSTAAEIFAIAKELLKTEIDADFPHPRLRLMGVRISFP
 NEEDRKHQQRSIIGFLQAGNQALSATECTLEKTDKDKFVKPLEMSHKKSFFDKKRSE
 RKWSHQDTFKCEAVNKQSFQTSQPFQVLKKKMENLEISENSDDCQILTCPVCFRA
 QGCISLEALNKHVDECLDGPSISENFKMFSCSHVSATKVNKKENVPASSLCEKQDYE
 AHPKIKEISSVDCIALVDTIDNSSKAESIDALSNKHSKEECSSLPSKSFNIEHCHQNSS
 STVSLENEDVGSFRQEYRQPYLCEVKTGQALVCPVCNVEQKTSDLTLFNVHVDVCL
 NKSFIQELRKDKFNPVNQPKESSRSTGSSSGVQKAVTRTRKRPGLMTKYSTSKKIKPN
 NPKHTLDIFFKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name POLK DNA polymerase kappa [Homo sapiens (human)]

Official Symbol POLK

Synonyms POLK; polymerase (DNA directed) kappa; DINB1; DNA polymerase kappa; DINB protein; DINP; POLQ;

Gene ID 51426

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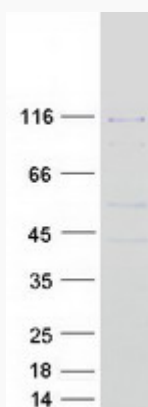
mRNA Refseq NM_016218

Protein Refseq NP_057302

MIM 605650

UniProt ID Q9UBT6

SDS-PAGE



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