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 KQVNQRIENMMQQKAQITSQQLRKAQLQVDRFAMELEQSRNLSNTIVHIDMDAFYA AVEMRDNPELKDKPIAVGSMSMLSTSNYHARRFGVRAAMPGFIAKRLCPQLIIVPPN FDKYRAVSKEVKEILADYDPNFMAMSLDEAYLNITKHLEERQNWPEDKRRYFIKMGS SVENDNPGKEVNKLSEHERSISPLLFEESPSDVQPPGDPFQVNFEEQNNPQILQNS VVFGTSAQEVVKEIRFRIEQKTTLTASAGIAPNTMLAKVCSDKNKPNGQYQILPNRQA VMDFIKDLPIRKVSGIGKVTEKMLKALGIITCTELYQQRALLSLLFSETSWHYFLHISLG

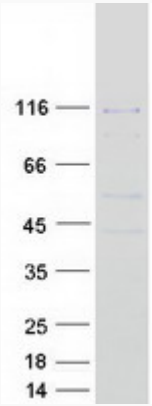
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
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	LGSTHLTRDGERKSMSVERTFSEINKAEEQYSLCQELCSELAQDLQKERLKGRTVTI KLKNVNFEVKTRASTVSSVVSTAEEIFAIAKELLKTEIDADFPHPLRLRLMGVRISSFP NEEDRKHQQRSIIGFLQAGNQALSATECTLEKTDKDKFVKPLEMSHKKSFFDKKRSE RKWSHQDTFKCEAVNKQSFQTSQPFQVLKKKMNENLEISENSDDCQILTCPVCFRA QGCISLEALNKHVDECLDGPSISENFKMFSCSHVSATKVNKKENVPASSLCEKQDYE AHPKIKEISSVDCIALVDTIDNSSKAESIDALSNKHSKEECSSLPSKSFNIEHCHQNSS STVSLENEDVGSFRQEYRQPYLCEVKTGQALVCPVCNVEQKTSDLTLFNVHVDVCL NKSFIQELRKDKFNPVNQPKESSRSTGSSSGVQKAVTRTKRPGLMTKYSTSKKIKPN 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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