Recombinant Human POLK, MYC/DDK-tagged

Cat. No. POLK-837H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human POLK, fused with C-terminal MYC/DDK, was expressed in HEK293 Cells.
Species	Human
Source	HEK293
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	98.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

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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; NP_057302.1; EC 2.7.7.7
Gene ID	51426
mRNA Refseq	NM_016218
Protein Refseq	NP_057302
MIM	605650
UniProt ID	Q9UBT6
Chromosome Location	5q13
Pathway	Fanconi anemia pathway
Function	DNA-directed DNA polymerase activity; damaged DNA binding; metal ion binding

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