

Recombinant Mouse Polk Protein, Myc/DDK-tagged

Cat. No. Polk-4991M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length polymerase (DNA directed), kappa (cDNA clone MGC:60610 IMAGE:30057338), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	DNA polymerase specifically involved in DNA repair. Plays an important role in translesion synthesis, where the normal high-fidelity DNA polymerases cannot proceed and DNA synthesis stalls. Depending on the context, it inserts the correct base, but causes frequent base transitions, transversions and frameshifts. Lacks 3'-5' proofreading exonuclease activity. Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but does not have lyase activity.
Molecular Mass	82.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Polk polymerase (DNA directed), kappa [*Mus musculus* (house mouse)]

Official Symbol Polk

Synonyms POLK; polymerase (DNA directed), kappa; DNA polymerase kappa; DINP; DINB protein; DinB homolog 1; DNA damage-inducible protein b; DNA-directed DNA polymerase kappa; Dinb1

Gene ID 27015

mRNA Refseq NM_012048

Protein Refseq NP_036178

UniProt ID Q9QUG2

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