

Recombinant Human Polymerase (DNA directed), Lambda, His-tagged

Cat. No. POLL-6891H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human POLL protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 36 kDa.
Species	Human
Source	E.coli
ProteinLength	1-300aa
Description	POLL is a DNA polymerase involved in base excision repair (BER). POLL is a low-fidelity polymerase which plays a role in both spontaneous and DNA damage-induced mutagenesis. In addition, POLL may play a role in the mutagenic bypass of T-T dimers. Pol lambda possesses terminal transferase and 5'-deoxyribose-5-phosphate lyase activity. These activities have been found to be coordinated by PCNA and replication protein A.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl.
Molecular Mass	36 kDa (320aa), confirmed by MALDI-TOF.
AA Sequence	MGSSHHHHHH SSGLVPRGSH MLMHHQKYLQ RFLGGKREKK QKEACSIPI GKRMAEKIIE ILESGHLRKL DHISESVPVL ELFSNIWGAG TKTAQMWWYQQ GFRSLEDIRS QASLTTQQAI GLKHYSDFLE RMPREEATEI EQTVQKAAQA

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FNSGLLCVAC GSYRRGKATC GDVDVLITHP DGRSHRGIFS RLLDSLREQE
 FLTDDLVSQE ENGQQQKYLK VCRLPGPGRR HRRLDIIVP YSEFACALLY
 FTGSAHFNRS MRALAKTKGM SLSEHALSTA VVRNTHGCKV GPGRVLPPTP
 EKDVFRLLGL PYREPAERDW

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name POLL polymerase (DNA directed), lambda [Homo sapiens]

Official Symbol POLL

Synonyms POLL; polymerase (DNA directed), lambda; DNA polymerase lambda; DNA polymerase kappa; DNA polymerase beta-2; DNA polymerase beta-N; BETAN; POLKAPPA; FLJ46002;

Gene ID 27343

mRNA Refseq NM_001174084

Protein Refseq NP_001167555

MIM 606343

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UniProt ID	Q9UGP5
Chromosome Location	10q23
Pathway	BER complex, organism-specific biosystem; BER complex, conserved biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Non-homologous end-joining, organism-specific biosystem; Non-homologous end-joining, conserved biosystem;
Function	DNA binding; DNA binding; DNA-directed DNA polymerase activity; DNA-directed DNA polymerase activity; catalytic activity; lyase activity; metal ion binding; nucleotidyltransferase activity; transferase activity;

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