

**AR50080PU-S****Human POLL (1-300, His-tag) - Purified****Alternate names:**

BETA-N, DNA polymerase lambda, POL-KAPPA

**Quantity:**

50 µg

**Concentration:**

0.5 mg/ml (determined by Bradford assay)

**Background:**

DNA polymerase lambda, also known as 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.

**Uniprot ID:**[Q9BTN8](#)**NCBI:**[AAH03548](#)**Species:**

Human

**Source:**

E. coli

**Format:****State:** Liquid purified protein**Purity:** >90% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl**Description:**

Recombinant human POLL protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**AA Sequence:**

MGSSHHHHHHH SSGLVPRGSH MLMHHQKYLQ RFLGGKREKK QKEACSIPIGI GKRMAEKIIE  
ILESGLRKL DHISESVPVL ELFSNIWGAG TKTAQMWYQQ GFRSLEDIRS QASLTTQQAI  
GLKHYSDFLE RMPREEATEI EQTVQKAAQA FNSGLLCVAC GSYRRGKATC GDVDVLI THP  
DGRSHRGIFS RLLDSL RQEG FLTDDLVSQE ENGQQQKYL G VCRLPGPGRR HRRLDII VVP  
YSEFACALLY FTGSAHFNRS MRALAKTKGM SLSEHALSTA VVRNTHGCKV GPGRVLP TPT  
EKDVFRL LGL PYREPAERDW

**Molecular weight:** 36 kDa (320aa), confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

**General Readings:**

O Wang J., et al. (2001) Cancer Res. 61:5366-5369. Zhang Y., et al. (2000) Nucleic Acids Res. 28:4147-4156.

Pictures:

