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Recombinant human DNA polymerase lambda/POLL protein

Catalog Number: ATGP1255

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-300aa

UniProt No.

O9UGP5

NCBI Accession No.

AAH03548

Alternative Names

DNA polymerase lambda, BETA-N, POL-KAPPA, Pol beta2, POLKAPPA

PRODUCT SPECIFICATION

Molecular Weight

36 kDa (320aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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



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Amino acid Sequence

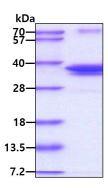
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General References

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

