

POLB, 1-335aa, Human, His tag, E.coli

Cat.NO.: TP03453

3th Edition

Synonyms:DNA polymerase beta.

Description:DNA polymerase beta, also known as POLB, belongs to the DNA polymerase type-X family. In eukaryotic cells, DNA polymerase beta (POLB) performs base excision repair (BER) required for DNA maintenance, replication, recombination, and drug resistance. POLB has two distinct domains, the larger is the polymerase domain itself, whereas a small basic N-terminal domain contains an AP lyase activity that excises the abasic sugarphosphate residue at the strand break.

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

Molecular Weight:40.3 kDa (355aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMSKRKAPQETLNGGITDMLTELANFEKNVSQAIHKYNAYRKAASVIKYPHKIKSG
AEAKKLPVGVGTKIAEKIDFLATGKLRKLEKIRQDDTSSSINFLTRVSGIGPSAARKFVDEGIKTLEDLRKNEDKLNHH
QRIGLKYFGDFEKRIPREEMLQMQDIVLNEVKKVDSEYIATVCGSFRRGAESSGDMDVLLTHPSFTSESTKQPKLLH
QVVEQLQKVHFITDTLSKGETKFMGVCQLPSKNDEKEYPHRRIDIRLIPKDQYYCGVLYFTGSDIFNKNMRAHALEK
GFTINEYTIRPLGVTGVAGEPLPVDSEKDIFDYIQWKYREPKDRSE

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.