

Recombinant Human POLB protein

Cat. No. POLB-524H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human POLB(Ser2-Glu335) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2-335 a.a.
Description	Human DNA polymerase β is constitutively expressed in cells. It fills in gaps in DNA that are formed following base excision repair. The activity cannot be affected by Aphidicolin, which is an inhibitor of DNA polymerase β .
Form	Supplied as a 0.2 μ m filtered solution of 20mM Tris-HCl, 100mM NaCl, 1mM DTT, 1mM EDTA, 50% Glycerol, pH 7.8
AA Sequence	MSKRKAPQETLNGGITDMLTELANFEKNVSQAIHKYNAYRKAASVIAKYPHKIKSGAE AKKLPGV GTKIAEKIDEFLATGKLRKLEKIRQDDTSSSINFLTRVSGIGPSAARKFVDE GIKTLEDLRKNED KLNHHQRIGLKYFGDFEKRIPREEMLQMQDIVLNEVKKVDSEYIA TVCGSFRRGAESSGDMDVLL THPSFTSESTKQPKLLHQVVEQLQKVHFITDTLSKG ETKFMGVCQLPSKNDEKEYPHRRIDIRLI PKDQYYCGVLYFTGSDIFNKNMRAHALE KGFTINEYTIRPLGVTGVAGEPLPVDSEKDIFDYIQW KYREPKDRSEVEHHHHHH
Endotoxin	Less than 0.1 ng/ μ g (1 IEU/ μ g).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage

Store at < -20 centigrade, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

GENE INFORMATION
Gene Name

POLB polymerase (DNA directed), beta [Homo sapiens]

Official Symbol

POLB

Synonyms

POLB; polymerase (DNA directed), beta; DNA polymerase beta; DNA pol beta; DNA polymerase beta subunit; MGC125976;

Gene ID

5423

mRNA Refseq

NM_002690

Protein Refseq

NP_002681

MIM

174760

UniProt ID

P06746

**Chromosome
Location**

8p12-p11

Pathway

BER complex, organism-specific biosystem; BER complex, conserved biosystem; Base Excision Repair, organism-specific biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Base-free sugar-phosphate removal via the single-nucleotide replacement pathway, organism-specific biosystem; DNA Repair, organism-specific biosystem;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Function

DNA-directed DNA polymerase activity; damaged DNA binding; enzyme binding; lyase activity; metal ion binding; microtubule binding; nucleotidyltransferase activity; protein binding; transferase activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA