

Recombinant Human POLH Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. POLH-3625H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	POLH MS Standard C13 and N15-labeled recombinant protein (NP_006493) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the Y family of specialized DNA polymerases. It copies undamaged DNA with a lower fidelity than other DNA-directed polymerases. However, it accurately replicates UV-damaged DNA; when thymine dimers are present, this polymerase inserts the complementary nucleotides in the newly synthesized DNA, thereby bypassing the lesion and suppressing the mutagenic effect of UV-induced DNA damage. This polymerase is thought to be involved in hypermutation during immunoglobulin class switch recombination. Mutations in this gene result in XPV, a variant type of xeroderma pigmentosum. Several transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	78.2 kDa
AA Sequence	MATGQDRVVALVDMDCFFVQVEQRQNPHLRNKPCAVVQYKSWKGGGIIAVSYEAR AFGVTRSMWADDAKKLCPDLLLAQVRESRGKANLTKYREASVEVMEIMSRFAVIER ASIDEAYVDLTSVQERLQKLQGQPISADLLPSTYIEGLPQGGPTTAEETVQKEGMRK QGLFQWLDSLQIDNLTSPDLQLTVGAVIVEEMRAAIERETGFQCSAGISHNKVLAKLA

 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

CGLNKPNRQTLVSHGSPQLFSQMPIRKIRSLGGKLGASVIEILGIEYMGELTQFTES
 QLQSHFGEKNGSWLYAMCRGIEHDPVKPRQLPKTIGCSKNFPGKTALATREQVQW
 WLLQLAQELEERLTKDRNDNDRVATQLVVSIRVQGDKRLSSLRRCCALTRYDAHKM
 SHDAFTVIKNCNTSGIQTEWSPPLTMLFLCATKFSASAPSSSTDITSFLSSDPSSLPK
 VPVTSSEAKTQGSGPAVTATKKATTSLESFFQKAAERQKVKEASLSSLTAPTQAPMS
 NSPSKPSLPFQTSQSTGTEPFFKQKSLLLKQKQLNNSVSSPQQNPWSNCKALPNS
 LPTEYPGCVPVCEGVSKLEESSKATPAEMDLAHNSQSMHASSASKSVLEVTQKATP
 NPSLLAAEDQVPCEKCGSLVPVWDMPEHMDYHFALELQKSFLQPHSSNPQVVS AV
 SHQGKRNPKSPLACTNKRPRPEGMQTLESFFKPLTHTRTRPLEQKLISEEDLAANDI
 LDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name POLH DNA polymerase eta [Homo sapiens (human)]

Official Symbol POLH

Synonyms POLH; polymerase (DNA directed), eta; DNA polymerase eta; RAD30A; XP V;
 RAD30 homolog A; xeroderma pigmentosum variant type protein; XPV; XP-V;
 RAD30; FLJ16395; FLJ21978;

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Gene ID	5429
mRNA Refseq	NM_006502
Protein Refseq	NP_006493
MIM	603968
UniProt ID	Q9Y253
SDS-PAGE	