

Recombinant Full Length Human POLH Protein, C-Flag-tagged

Cat. No. POLH-1886HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human POLH Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	78.2 kDa
AA Sequence	MATGQDRVVALVDMDCFFVQVEQRQNPHLRNKPCAVVQYKSWKGGGIIAVSYEAR AFGVTRSMWADDAKK LCPDLLLAQVRESRGKANLTKYREASVEVMEIMSRFAVIER ASIDEAYVDLTSVQERLQKLQGQPISAD LLPSTYIEGLPQGPTTAEETVQKEGMRK QGLFQWLDSLQIDNLTSPDLQLTVGAVIVEEMRAAIERETGF QCSAGISHNKVLAKL

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ACGLNKPNRQTLVSHGSVPQLFSQMPIRKIRSLGGKLGASVIEILGIEYMGELTQ FTE
 SQLQSHFGEKNGSWLYAMCRGIEHDPVKPRQLPKTIGCSKNFPGKTALATREQVQ
 WWLLQLAQELEEE RLTKDRNDNDRVATQLVVSIRVQGDKRLSSLRRCCALTRYDAH
 KMSHDAFTVIKNCNTSGIQTEWSPPLT MLFLCATKFSASAPSSSTDITSFLSSDPSSL
 PKVPVTSSEAKTQGS GPAVTATKKATTSLESFFQKAAER QKVKEASLSSLTAPTQA
 PMSNSPSKPSLPFQTSQSTGTEPFFKQKSLLLKQKQLNNSVSSPQQNPWSNC KA
 LPNSLPTEYPGCVPVCEGVSKLEESSKATPAEMDLAHSQSMHASSASKSVLEVTQ
 KATPNPSLLAAE DQVPCEKCGSLVPVWDMPEHMDYHFALELQKSFLQPHSSNPQV
 VSAVSHQGKRNPKSPLACTNKRPRPEG MQTLESFFKPLTH TRTRPLEQKLISEEDL
 AANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

GENE INFORMATION

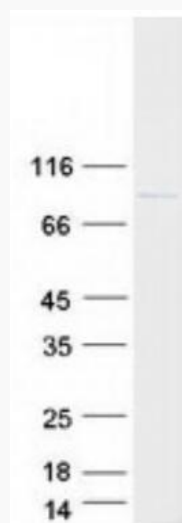
Gene Name POLH DNA polymerase eta [Homo sapiens (human)]

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Official Symbol	POLH
Synonyms	XPV; XP-V; RAD30; RAD30A
Gene ID	5429
mRNA Refseq	NM_006502.3
Protein Refseq	NP_006493.1
MIM	603968
UniProt ID	Q9Y253



Coomassie blue staining of purified POLH protein.

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