

Product datasheet for TP516957

Polh (NM_030715) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse polymerase (DNA directed), eta (RAD 30 related) (Polh), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR216957 representing NM_030715 Red=Cloning site Green=Tags(s) MAPGQNRVVALVDMDCFFVQVEQRQNPHLRNKPCAVVQYKSWKGGGIIAVSYEARAFGVTRNMWADDAKK LCPDLLLAQVRESRGKANLTKYREASVEVMEIMSYFAVIERASIDEAYIDLTSAVQERLQKLQGQPISAD LLPSTYIEGLPRGPTVEETVQKEAIRKQGLLQWLDLSQSDPTSPDLRLTVGAMIVEEMRAAIESKTGFQ CSAGISHNKVLAKLACGLNKPNRQTLVSHGVSVPQLFSQMPIRKIRSLGGKLGASVIEVLGIEYMGDLTQF TESQLQSHFGEKNGSWLYAMCRGIEHDPVKPRQLPKTIGCSKNFPGKTALATREQVQWWLLQLALELEER LTKDRNDNDRVATQLVVSIRFQGDRLSSLRCCALPRYDAHKMSQDAFAAIRNCNTSGIQTEWSPPLTM LFLCATKFSAAAPPACTDITAFSSDSSCQPKVPIASSETRTQGSGPAVPTSKEAATSLASFFQKAACKQ RMKETSFVPLNTATEKLSKPSLVFQSSQTTGSQSFFKQKSLLLQHTQLSNSAAPDPPQASPAAPSPCLP AECVDSGPDGAVKPVSSKAVSTEMNVAGDSPNVLDSPAYNSQEVTRATEDQVLCEKCDSLVPVWDMPE HTDYHFALELQKSFLQPCTSKPQAIPAVSPQGKRNPKSPSASSSKRLRPHGMQTLESFFKPLTH TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	76.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_109640](#)

Locus ID: 80905

UniProt ID: [Q9JIN0](#)

RefSeq Size: 2580

Cytogenetics: 17 C

RefSeq ORF: 2082

Synonyms: RAD30A; XPV

Summary: DNA polymerase specifically involved in the DNA repair by translesion synthesis (TLS) (PubMed:10871396). Due to low processivity on both damaged and normal DNA, cooperates with the heterotetrameric (REV3L, REV7, POLD2 and POLD3) POLZ complex for complete bypass of DNA lesions. Inserts one or 2 nucleotide(s) opposite the lesion, the primer is further extended by the tetrameric POLZ complex. In the case of 1,2-intrastrand d(GpG)-cisplatin cross-link, inserts dCTP opposite the 3' guanine (By similarity). Particularly important for the repair of UV-induced pyrimidine dimers (PubMed:10871396). Although inserts the correct base, may cause base transitions and transversions depending upon the context. May play a role in hypermutation at immunoglobulin genes. Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but does not have any lyase activity, preventing the release of the 5'-deoxyribose phosphate (5'-dRP) residue. This covalent trapping of the enzyme by the 5'-dRP residue inhibits its DNA synthetic activity during base excision repair, thereby avoiding high incidence of mutagenesis. Targets POLI to replication foci (By similarity).[UniProtKB/Swiss-Prot Function]