

Product datasheet for TP509951

Poli (NM_001136090) Mouse Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Mouse polymerase (DNA directed), iota (Poli), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| Species: | Mouse |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >MR209951 protein sequence Red =Cloning site Green =Tags(s) |

MISNPELKDRPLGVQKYLWTCNYEARKLGVRKLMNVRDAKEKCPQLVLVNGEDLSRYREMSYKVTPELL
EEFSPAVERLGFDENFVDLTEMVEKRLQLPSEEVPSVTVFGHVYNNQSVNLHNMHRRLLVVGSIQAAEM
REAMYNQLGLTGAGVAPNKLAKLVSGVFKPNQQTVLLPESCQHSLHSLNHIKEIPGIGYKTAKRLEVL
GINSVHDLQTFPIKTLEKELGIAIAQRIQLSFGEDKSPVTPSGPPQSFSEEDTFKKCSSEVEAKAKIEE
LLSSLLTRVCQDGRKPHTVRLVIRRYSDKHCRNRESRQCPIPSHVIQKLGTHNDSMPPLIDILMKLFRNM
VNVKMPFHLTMSVCFNLKALSSAKKGPMDCYLTSSTPAYTDKRAFVKDTHTEDSHKEKEANWDCLP
SRRISTGTGESPLDATCFPKEKDTSDLPLQALPEGVDQEVFKQLPADIQEEILSGKSRENKGGKGLSC
PLHASRGVLSFFSTKQMQASRLSPRDTALPSKRVSAAASPCEPGTSGLSPGSTSHPSCGKDCSYIYDSQLK
DEQTSQGPTESQGCQFSSTNPAVSGFHSFNLQTEQLFSTHRTVDSHKQTATASHQGLSHQGLSRELD
SAEEKLPFPDIDPQVFYELPEEVQKELMAEWERAGAARPSAHR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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|-----------------------|--|
| Tag: | C-MYC/DDK |
| Predicted MW: | 75.1 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_001129562](#)
Locus ID: 26447
UniProt ID: [Q6R3M4](#), [A0A0R41Z5](#)
RefSeq Size: 2937
Cytogenetics: 18 E2
RefSeq ORF: 2025
Synonyms: Rad30b

Summary: Error-prone DNA polymerase specifically involved in DNA repair. Plays an important role in translesion synthesis, where the normal high-fidelity DNA polymerases cannot proceed and DNA synthesis stalls. Favors Hoogsteen base-pairing in the active site. Inserts the correct base with high-fidelity opposite an adenosine template. Exhibits low fidelity and efficiency opposite a thymidine template, where it will preferentially insert guanosine. May play a role in hypermutation of immunoglobulin genes. Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but may not have lyase activity (By similarity).[UniProtKB/Swiss-Prot Function]