

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

Cat. No. POLI-1020H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	POLI MS Standard C13 and N15-labeled recombinant protein (NP_009126) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is an error-prone DNA polymerase involved in DNA repair. The encoded protein promotes DNA synthesis across lesions in the template DNA, which other polymerases cannot do. The encoded polymerase inserts deoxynucleotides across lesions and then relies on DNA polymerase zeta to extend the nascent DNA strand to bypass the lesion.
Molecular Mass	80.3 kDa
AA Sequence	MELADVGAAASSQGVHDQVLPTPNASSRVIVHVDLDCFYAQVEMISNPELKDKPLG VQQKYLVVTCNYEARKLGVKKLMNVRDAKEKCPQLVLVNGEDLTRYREMSYKVTEL LEEFSPVVERLGFDFENFVDLTEMVEKRLQQQLQSDLSAVTVSGHVYNNQSINLLDVL HIRLLVGSQIAAEMREAMYNQLGLTGCAVASNKLLAKLVSGVFKPNQQTVLLPESC QHLIHSLNHIKEIPGIGYKTAKCLEALGINSVRDLQTFSPKILEKELGISVAQRIQKLSFG EDNSPVILSGPPQSFSEEDSFKKCSSEVEAKNKIEELLASLLNRVCQDGRKPHTVRLI IRRYSSSEKHYGRESRQCPIPSHVIQKLGTGNYDVMTPMVDILMKLFRNMVNVKMPF HLTLLSVCFCNLKALNTAKKGLIDYYLMPSLSTTSRSGKHSFKMKDTHMEDFPKDKE

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TNRDFLPSGRIESTRTRESPLDTTNFSKEKDINEFPLCSLPEGVDQEVFKQLPVDIQE
 EILSGKSREKFQKGKGSVSCPLHASRGVLSFFSKKQMQDIPINPRDHLSSSKQVSSVS
 PCEPGTSGFNSSSSSYMSSQKDYSYYLDNRLKDERISQGPKEPQGFHFTNSNPAVS
 AFHSFPNLQSEQLFSRNHTTDSHKQTVATDSHEGLTENREPDSVDEKITFPSDIDPQ
 VFYELPEAVQKELLAEWKRAGSDFHIGHKTRTRPLEQKLISEEDLAANDILDYKDDDD
 KV

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 POLI DNA polymerase iota [Homo sapiens (human)]

Official Symbol POLI

Synonyms POLI; polymerase (DNA directed) iota; RAD3OB, RAD30B; DNA polymerase iota; eta2; RAD30 homolog B; polymerase (DNA-directed), iota; RAD30B; RAD30B;

Gene ID 11201

mRNA Refseq NM_007195

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Protein Refseq NP_009126

MIM 605252

UniProt ID Q9UNA4

SDS-PAGE



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