

Recombinant Human POLD2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. POLD2-4964H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	POLD2 MS Standard C13 and N15-labeled recombinant protein (NP_006221) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes the 50-kDa catalytic subunit of DNA polymerase delta. DNA polymerase delta possesses both polymerase and 3' to 5' exonuclease activity and plays a critical role in DNA replication and repair. The encoded protein is required for the stimulation of DNA polymerase delta activity by the processivity cofactor proliferating cell nuclear antigen (PCNA). Expression of this gene may be a marker for ovarian carcinomas. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 5.
Molecular Mass	51.3 kDa
AA Sequence	MFSEQAAQRAHTLLSPPSANNATFARVPVATYTNSSQPFRLGERSFSRQYAHYAT RLIQMRPFLENRAQQHWGSGVGKVKLCELQPEEKCCVVGTLFKAMPLQPSILREVS EEHNLLPQPPRSKYIHPDDELVEDELQRIKLKGTIDVSKLVTGTVLAVFGSVRDDGK FLVEDYCFADLAPQKPAPPLDTRFVLLVSGLGGLGGGGESLLGTQLLDVVTGQL GDEGEQCSAAHVSRLVILAGNLLSHSTQSRDSINKAKYLTCKTQAASVEAVKMLDEILL

 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

QLSASVPVDVMPGEFDPTNYTLPQQPLHPCMFPLATAYSTLQLVTNPYQATIDGVRF
 LGTSGQNVSDIFRYSSMEDHLEILEWTLRVRHISPTAPDTLGCYPFYKTDPFIFPECP
 HVYFCGNTSPSFGSKIIRGPEDQTVLLVTPDFSATQTACLVLNLRSLACQPISFSGFGA
 EDDDLGGLGLGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 POLD2 DNA polymerase delta 2, accessory subunit [Homo sapiens (human)]

Official Symbol POLD2

Synonyms POLD2; polymerase (DNA directed), delta 2, regulatory subunit 50kDa; polymerase (DNA directed), delta 2, regulatory subunit (50kD); DNA polymerase delta subunit 2; DNA polymerase delta subunit p50;

Gene ID 5425

mRNA Refseq NM_006230

Protein Refseq NP_006221

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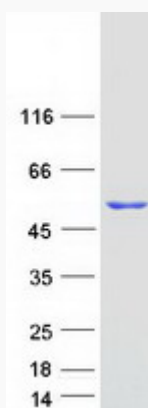
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MIM 600815

UniProt ID P49005

SDS-PAGE



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