

Recombinant Human POLD2

Cat. No. POLD2-28358TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human DNA polymerase delta p50 with a N terminal proprietary tag; predicted MW: 77.66 kDa, inclusive of tag. P49005,
Species	Human
Source	Wheat Germ
ProteinLength	469 amino acids
Description	The DNA polymerase delta complex is involved in DNA replication and repair, and it consists of the proliferating cell nuclear antigen (PCNA; MIM 176740), the multisubunit replication factor C (see MIM 102579), and the 4 subunit polymerase complex: POLD1 (MIM 174761), POLD2, POLD3 (MIM 611415), and POLD4 (MIM 611525) (Liu and Warbrick, 2006)
Molecular Weight	77.660kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

MFSEQAAQRAHTLLSPPSANNATFARVPVATYTNSSQPFR LGERSFSRQYAHYAT
 RLIQMRPFLENRAQQHWGSGVGK KLCELQPEEKCCVVGTLFKAMPLQPSILREVS
 EEHNLLPQ PPRSKYIHPDELVLDELQRIKLKGTIDVSKLVTGTVLA VFGSVRDDG
 KFLVEDYCFADLAPQKPAPPLDTRFVLLVS GLGLGGGGGESLLGTQLLVDVVTGQ
 LGDEGEQC SAAHVSR VILAGNLLSHSTQSRDSINKAKYLT KKTQAASVEAVKMLD EI
 LLQLSASVPVDVMPGEFDPTNYTLPQQPLHPCMFPLAT AYSTLQLVTNPYQATIDG
 VRFLGTSGQNVS DIFRYSSMED HLEILEWTLRVRHISPTAPDTLGCYPFYKTDPFIFP
 ECPH VYFCGNTPSFGSKIIRGPEDQTVLLVTVPDFSATQTACLV NLRSLACQPISFS
 GFGAEDDDLGGGLGLGP

Sequence Similarities

Belongs to the DNA polymerase delta/II small subunit family.

GENE INFORMATION
Gene Name

POLD2 polymerase (DNA directed), delta 2, regulatory subunit 50kDa [Homo sapiens]

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;

Gene ID

5425

mRNA Refseq

NM_001127218

Protein Refseq

NP_001120690

MIM

600815

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Uniprot ID	P49005
Chromosome Location	7
Pathway	Base Excision Repair, organism-specific biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem;
Function	DNA binding; DNA-directed DNA polymerase activity; nucleotidyltransferase activity; protein binding; transferase activity;

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