

Recombinant Full Length Human POLD1 Protein, GST tagged

Cat. No. POLD1-20HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human POLD1 full-length ORF (AAH08800.1, 1 a.a. - 1107 a.a.) recombinant protein with GST-tag at N-terminal was expressed in Wheat Germ (in vitro).
Species	Human
Source	Wheat Germ
ProteinLength	1-1107aa
Description	This gene encodes the 125-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. Alternatively spliced transcript variants have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 6.
Tag	N-GST
Molecular Mass	150 kDa
AA Sequence	MDGKRRPGPGPGVPPKRARGGLWDDDDAPRPSQFEEDLALMEEMEAHRLQEQE EEELQSVLEGVADGQVPPSAIDPRWLRPTTPALDPQTEPLIFQQLEIDHYVGPAQPV PGGPPPSHGSVPVLRAGVTDEGFSVCCHIHGFAPYFYTPAPPGFGPEHMGDLQR ELNLAISRDSRGGRELTGPAVLAVELCSRESMFGYHGHGSPFLRITVALPRLVAPA RRLLEQGIRVAGLGTPSFAPYEANVDFEIRFMVDTDIVGCNWLELPAGKYALRLKEK ATQCQLEADVLWSDVVSHPPEGPWQRIAPLRVLSFDIECAGRKGIFPEPERDPVIQI

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CSLGRLRWGEPEPFLRLALTLRPCAPILGAKVQSYEKEEDLLQAWSTFIRIMDPDVITG
 YNIQNFDLPYLISRAQTLKVQTFPFLGRVAGLCSNIRDSSFQSKQTGRRDTKVVSMV
 GRVQMDMLQVLLREYKLRSYTLNAVSFHFLGEQKEDVQHSIITDLQNGNDQTRRRL
 AVYCLKDAYLPLRLLERLMVLVNAVEMARVTGVPLSYLLSRGQQVKVVSQLLRQAM
 HEGLLMPVVKSEGGEDYTGATVIEPLKGYVDVPIATLDFSSLYPSIMMAHNLCYTTL
 RPGTAQKLGLTEDQFIRTPTGDEFVKTSVRKGLLPQILENLLSARKRAKAEKADP
 LRRQVLDGRQLALKVSANSVYGFTGAQVGKLPCLISQSVTGFRQMIKTKQLVE
 SKYTVENGYSTSAKVVGDTDSVMCRFGVSSVAEAMALGREAADWVSGHFPSPIR
 LEFEKVYFPYLLISKRYAGLLFSSRPDAHDRMDCKGLEAVRRDNCPLVANLVTASL
 RRLIDRDPEGAVAHAQDVISDLLCNRIDISQLVITKELTRAASDYAGKQAHVELAER
 MRKRDPGSAPSLGDRVPYVIISAAKGVAAYMKSEDPLFVLEHSLPIDTQYYLEQQLA
 KPLLRIFEPILEGRAEAVLLRGDHTRCKTVLTGKVGGLLAFAKRRNCCIGCRTVLSH
 QGAVCEFCQPRESELYQKEVSHLNALEERFSRLWTQCQRCQGS LHEDVICTSRDC
 PIFYMRKKVRKDLEDQEQLLRRFGPPGPEAW

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Quality Control Test	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Notes	Best use within three months from the date of receipt of this protein.

GENE INFORMATION

Gene Name	POLD1 DNA polymerase delta 1, catalytic subunit [Homo sapiens (human)]
Official Symbol	POLD1
Synonyms	POLD1; DNA polymerase delta 1, catalytic subunit; CDC2; MDPL; POLD; CRCS10; IMD120; DNA polymerase delta catalytic subunit; 3'-5' exodeoxyribonuclease; CDC2 homolog; DNA polymerase subunit delta p125; polymerase (DNA directed), delta 1, catalytic subunit 125kDa; polymerase (DNA) delta 1, catalytic subunit; EC 2.7.7.7
Gene ID	5424
mRNA Refseq	NM_002691
Protein Refseq	NP_002682
MIM	174761
UniProt ID	P28340
SDS-PAGE	