

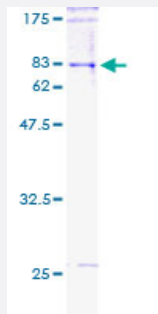
Full-Length

POLG2 (Human) Recombinant Protein (P01)

Catalog # H00011232-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human POLG2 full-length ORF (AAH09194, 1 a.a. - 485 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MRSRVAVRACHKVCRCLLSGFGGRV/GAGQPELLTERSSPKGGHVKSHAELEGNGEHPEAPGS
GEGSEALLEICQRRHFLSGSKQQLSRDSLLSGCHPGFGPLGVELRKNLAAEWWTSVVVFREQV
FPVDALHHKPGPLPGDSAFRLVSAETLREILQDKELSKEQLVAFLENVLKTSGKLRENLLHGALE
HYVNCLDLVNKRLPYGLAQIGVCFHPVFDTKQIRNGVKSIGEKTEASLVWFTPPRTSNQWLDFWL
RHRLQWWRKFAMSPSNFSSSDCQDEEGRKGNKLYNFPWGKELIETLWNLGDHELLHMYPGNV
SKLHGRDGRKNVPCVLSVNGDLDRGMLAYLYDSFQLTENSFTRKKNLHRKVLKLHPCLAPIKVA
LDVGRGPTLELRQVCQGLFNELLENGISVWPAYLETMQSSLEQLYSKYDEMSILFTVLVTETTLEN
GLIHLRSRDTTMKEMMHISKLKDFLIKYISSAKNV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

79.09

Interspecies Antigen Sequence

Mouse (72); Rat (73)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — POLG2

Entrez GeneID	11232
GeneBank Accession#	BC009194
Protein Accession#	AAH09194
Gene Name	POLG2
Gene Alias	HP55, MTPOLB, PEOA4, POLB, POLG-BETA, POLGB
Gene Description	polymerase (DNA directed), gamma 2, accessory subunit
Omim ID	604983 610131
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the processivity subunit of the mitochondrial DNA polymerase gamma. The encoded protein forms a heterotrimer containing one catalytic subunit and two processivity subunits. This protein enhances DNA binding and promotes processive DNA synthesis. Mutations in this gene result in autosomal dominant progressive external ophthalmoplegia with mitochondrial DNA deletions
Other Designations	mitochondrial DNA polymerase, accessory subunit

Pathway

- [Metabolic pathways](#)

Disease

- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Hepatitis C](#)
- [Liver Cirrhosis](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Ophthalmoplegia](#)