

DNAPAb

Hard-to-Find
Antibody

POLG2 DNAPAb

Catalog # H00011232-W01P

Size 200 ug

Specification

Product Description Rabbit polyclonal antibody raised against a full-length human POLG2 DNA using DNAX™ Immune technology.

Technology [DNAX™ Immune](#)

Immunogen Full-length human DNA

Sequence MRSRVAVRACHKVCRCLLSGFGGRVDAGQPELLTERSSPKGGHVKSHAELEGNGEHPEAPGS
GEGSEALLEICQRRHFLSGSKQQLSRDSLLSGCHPGFGPLGVELRKNLAAEWWTSSVVVFREQV
FPVDALHHKPGPLPGDSAFRLVSAETLREILQDKELSKEQLVAFLENVLKTSGKLRENLLHGALE
HYVNCLDLVNKRLPYGLAQIGVCFHPVFDTKQIRNGVKSIGEKTEASLVWFTPPRTSNQWLDFWL
RHRLQWWRKFAMSPSNFSSSDCQDEEGRKGNKLYNFPWGKELIETLWNLGDHELLHMYPGNV
SKLHGRDGRKNVPCVLSVNGDLDRGMLAYLYDSFQLTENSFTRKKNLHRKVLKLHPCLAPIKVA
LDVGRGPTLELRQVCQGLFNELLENGISVWPAYLETMQSSLEQLYSKYDEMSILFTVLVTETTLEN
GLIHLRSRDTTMKEMMHISKLKDFLIKYISSAKNV

Host Rabbit

Reactivity Human

Purification Protein A

Quality Control Testing Antibody reactive against mammalian transfected lysate.

Storage Buffer In 1x PBS, pH 7.4

Storage Instruction Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — POLG2

Entrez GeneID [11232](#)

GeneBank Accession# [BC009194.2](#)

Protein Accession# [AAH09194.1](#)

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](#)