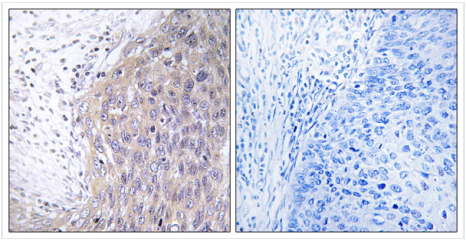
# POLG2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | POLG2, Polyclonal Antibody |
| **Full Product Name** | POLG2 Antibody |
| **Product Gene Name** | anti-POLG2 antibody |
| **Product Synonym Gene Name** | DPOG2 |
| **Product Synonym Names** | DNA polymerase subunit gamma-2, mitochondrial; Mitochondrial DNA polymerase accessory subunit; PolG-beta; MtPolB; DNA polymerase gamma accessory 55 kDa subunit; p55 |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purity/Purification** | Purified from rabbit antiserum by affinity-chromatography using immunogen. |
| **Concentration** | 1 mg/ml (lot specific) |
| **Specificity** | POLG2 Antibody detects endogenous levels of total POLG2 protein. |
| **Preparation and Storage** | Stable at -20 degree C for at least 1 year. |
| **Molecular Weight** | 54 kDa |
| **OMIM** | AF142992 mRNA |
| **3D Structure** | ModBase 3D Structure for Q9UHN1 |
| **Target Modification** | Unmodified/Total |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human POLG2. |
| **Immunogen Range** | 291-340 |
| **Applications Tested/Suitable for anti-POLG2 antibody** | Immunohistochemistry (IHC), ELISA (EIA) |
| **Application Notes for anti-POLG2 antibody** | IHC: 1:50~1:100<br>ELISA: 1:20000 |
| **Related Product Information for anti-POLG2 antibody** | MBS9506290 is an antibody targeting POLG2. Also known as POLG2 Antibody. Reactive in Human. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-POLG2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |



**Immunohistochemistry (IHC) of anti-POLG2 antibody**
Immunohistochemistry analysis of paraffin-embedded human cervix carcinoma tissue, using POLG2 Antibody. The picture on the right is blocked with the synthesized peptide.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for POLG2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 70887790 |
| **NCBI GeneID** | 11232 |
| **NCBI Accession #** | NP_009146.2 |
| **UniProt Primary Accession #** | Q9UHN1 |
| **UniProt Secondary Accession #** | O00419; Q0IJ81; Q96GW2; Q9UK35; Q9UK94 |
| **UniProt Related Accession #** | Q9UHN1 |
| **GenBank Nucleotide #** | NM_007215.3 |
| **NCBI Official Full Name** | DNA polymerase subunit gamma-2, mitochondrial |
| **NCBI Official Synonym Full Names** | DNA polymerase gamma 2, accessory subunit |
| **NCBI Official Symbol** | POLG2 |
| **NCBI Official Synonym Symbols** | HP55; POLB; PEOA4; POLGB; MTPOLB; POLG-BETA |
| **UniProt Protein Name** | DNA polymerase subunit gamma-2, mitochondrial |
| **UniProt Synonym Protein Names** | DNA polymerase gamma accessory 55 kDa subunit; p55; Mitochondrial DNA polymerase accessory subunit; MtPolB; PolG-beta |
| **Protein Family** | DNA polymerase |
| **UniProt Gene Name** | POLG2 |
| **UniProt Synonym Gene Names** | MTPOLB; p55 |
| **NCBI Protein Information** | DNA polymerase subunit gamma-2, mitochondrial |
| **NCBI Summary for POLG2** | 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.[provided by RefSeq, Sep 2009] |
| **UniProt Comments for POLG2** | Mitochondrial polymerase processivity subunit. Stimulates the polymerase and exonuclease activities, and increases the processivity of the enzyme. Binds to ss-DNA. |
| **Research Articles on POLG2** | **1.** This is the first report of a patient with a homozygous mutation in POLG2 and with a clinical presentation of severe hepatic failure and mitochondrial depletion. |
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