# Rabbit anti-Human POLG2 Polyclonal Antibody | anti-POLG2 antibody

POLG2 Antibody (Center)

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA290688** | **Rabbit** | **Human** | **ELISA, Immunohistochemistry, Western Blot** |

## PRODUCT SYNONYMS

POLG2; Polyclonal Antibody; POLG2 Antibody (Center); DNA polymerase subunit gamma-2; mitochondrial; DNA polymerase gamma accessory 55 kDa subunit; p55; Mitochondrial DNA polymerase accessory subunit; MtPolB; PolG-beta; MTPOLB; anti-POLG2 antibody

## PRODUCT SPECIFICATIONS

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|---|---|
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Clonality** | Polyclonal |
| **Isotype** | Ig |
| **Specificity** | This POLG2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 205-234 amino acids from the Central region of human POLG2. |
| **Form/Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| **Sequence Length** | 485 |
| **Applicable Applications for anti-POLG2 antibody** | ELISA, IHC (Immunohistochemistry), WB (Western Blot) |
| **Subtitle** | Purified Rabbit Polyclonal Antibody (Pab) |
| **Cellular Location** | Mitochondrion. |
| **Antigen Region** | 205-234 aa |
| **Antigen Type** | Synthetic Peptide |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

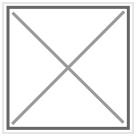
## IMAGES



**IHC (Immunohistochemisry)**
Formalin-fixed and paraffin-embedded human brain tissue reacted with POLG2 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



**WB (Western Blot)**
Western blot analysis of anti-POLG2 Antibody (Center) in K562 cell line lysates (35ug/lane). POLG2 (arrow) was detected using the purified Pab.



**WB (Western Blot)**
Anti-POLG2 Antibody (Center) at 1:1000 dilution + HL-60 whole cell lysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 55 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-POLG2 antibody** | Description: The accuracy of mitochondrial DNA (mtDNA) replication depends on the coordinated action of many nuclear-encoded proteins and on the correct balance of nucleotides within the mitochondrial matrix. mtDNA is replicated by DNA polymerase gamma, which is composed of a 140-kD catalytic subunit(POLG1) and a 55-kD accessory subunit (POLG2).<br><br>Background: Mitochondrial polymerase processivity subunit. Stimulates the polymerase and exonuclease activities, and increases the processivity of the enzyme. Binds to ss-DNA. |
| **Product Categories/Family for anti-POLG2 antibody** | Primary Antibodies |
| **References** | Longley,M.J., Am. J. Hum. Genet. 78 (6), 1026-1034 (2006). Carrodeguas,J.A., J. Biol. Chem. 277 (51), 50008-50014 (2002). |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 70887790 |
| **NCBI GeneID** | 11232 |
| **NCBI Accession #** | NP_009146.2 |
| **NCBI GenBank Nucleotide #** | NM_007215.3 |
| **UniProt Accession #** | Q9UHN1; O00419; Q0IJ81; Q96GW2; Q9UK35; Q9UK94 |
| **Molecular Weight** | 54911 Da |
| **NCBI Official Full Name** | DNA polymerase subunit gamma-2, mitochondrial |
| **NCBI Official Synonym Full Names** | polymerase (DNA) gamma 2, accessory subunit |
| **NCBI Official Symbol** | POLG2 |
| **NCBI Official Synonym Symbols** | HP55; POLB; PEOA4; POLGB; MTPOLB; POLG-BETA |
| **NCBI Protein Information** | DNA polymerase subunit gamma-2, mitochondrial |
| **UniProt Protein Name** | DNA polymerase subunit gamma-2, mitochondrial |
| **UniProt Gene Name** | **POLG2** |
| **UniProt Synonym Gene Names** | MTPOLB; p55 |
| **UniProt Entry Name** | DPOG2_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/polg2-antibody-immunohistochemistry-western-blot-elisa/290688