

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

POLG2 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289286	Rabbit	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

POLG2; Polyclonal Antibody; POLG2 Antibody (C-term); 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

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This POLG2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 348-376 amino acids from the C-terminal region of human POLG2.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
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.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	348-376
Sequence Length	485
Applicable Applications for anti-POLG2 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
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



FCM/FACS (Flow Cytometry)

POLG2 Antibody (C-term) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human skeletal muscle reacted with POLG2 Antibody (C-term), 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 POLG2 Antibody (C-term) in HL-60 cell line lysates (35ug/lane).
POLG2 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-POLG2 antibody	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).
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

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
NCBI Official Full Name	DNA polymerase subunit gamma-2, mitochondrial
NCBI Official Synonym Full Names	polymerase (DNA directed), 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-flow-cytometry-immunohistochemistry-western-blot-elisa/289286>