

Rabbit anti-Human DNA Polymerase gamma Polyclonal Antibody | anti-POLG antibody

DNA Polymerase gamma antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA303891	Rabbit	Human	Immunofluorescence, Immunohistochemistry, Western Blot

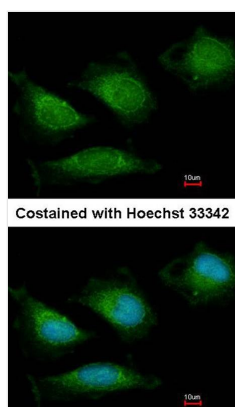
PRODUCT SYNONYMS

DNA Polymerase gamma; Polyclonal Antibody; DNA Polymerase gamma antibody; anti-POLG antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Purified by antigen-affinity chromatography.
Form/Format	Supplied in 1XPBS, 1%BSA, 20% Glycerol (pH7.0). 0.01% Thimerosal was added as a preservative.
Concentration	0.67 mg/ml (varies by lot)
Sequence Length	1239
Applicable Applications for anti-POLG antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Recombinant protein
Immunogen Description	Recombinant protein fragment contain a sequence corresponding to a region within amino acids 779 and 1191 (P54098) of DNA polymerase gamma
Target Name	DNA Polymerase gamma
Preparation and Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

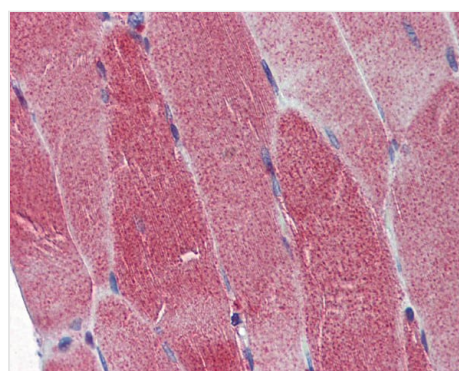
IMAGES



Costained with Hoechst 33342

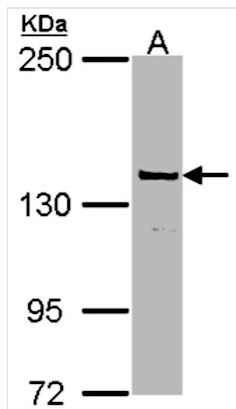
IF (Immunofluorescence)

Immunofluorescence analysis of methanol-fixed HeLa, using DNA polymerase gamma antibody at 1: 200 dilution.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded Skeletal Muscle, using DNA polymerase gamma antibody(10 ug/ml).



SDS-PAGE

Sample (30 ug of whole cell lysate) A: MCF-7 5% SDS PAGE Primary antibody diluted at 1:1000

ADDITIONAL INFORMATION

Related Product Information for anti-POLG antibody	Mitochondrial DNA polymerase is heterotrimeric, consisting of a homodimer of accessory subunits plus a catalytic subunit. The protein encoded by this gene is the catalytic subunit of mitochondrial DNA polymerase. The encoded protein contains a polyglutamine tract near its N-terminus that may be polymorphic. Defects in this gene are a cause of progressive external ophthalmoplegia with mitochondrial DNA deletions 1 (PEOA1), sensory ataxic neuropathy dysarthria and ophthalmoparesis (SANDO), Alpers-Huttenlocher syndrome (AHS), and mitochondrial neurogastrointestinal encephalopathy syndrome (MNGIE). Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq]
Product Categories/Family for anti-POLG antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505937
NCBI GeneID	5428
NCBI Accession #	NP_002684
NCBI GenBank Nucleotide #	NM_002693.2
Molecular Weight	140kd
NCBI Official Full Name	DNA polymerase subunit gamma-1
NCBI Official Synonym Full Names	polymerase (DNA directed), gamma
NCBI Official Symbol	POLG
NCBI Official Synonym Symbols	PEO; MDP1; SCAE; MIRAS; POLG1; POLGA; SANDO; MTDPS4A; MTDPS4B
NCBI Protein Information	DNA polymerase subunit gamma-1
UniProt Protein Name	DNA polymerase subunit gamma-1
UniProt Gene Name	POLG
UniProt Synonym Gene Names	MDP1; POLG1; POLGA
UniProt Entry Name	DPOG1_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.