



Anti-POLG2 (aa 45-94) polyclonal antibody (CPBT-43694RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit Polyclonal antibody to Human POLG2.
Antigen Description	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.
Immunogen	Synthetic peptide corresponding to a region within N terminal amino acids 45-94 (KSHAELEGNG EHPEAPGSGE GSEALLEICQ RRHFLSGSKQ QLSRDSLLSG) of Human POLG2.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	WB
Cellular Localization	Mitochondrion.
Format	Liquid
Size	50 µg
Buffer	Constituents:97% PBS, 2% Sucrose

Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	POLG2 polymerase (DNA directed), gamma 2, accessory subunit [Homo sapiens]
Official Symbol	POLG2
Synonyms	POLG2; polymerase (DNA directed), gamma 2, accessory subunit; DNA polymerase subunit gamma-2, mitochondrial; HP55; MTPOLB; mitochondrial; DNA directed DNA polymerase gamma 2; DNA polymerase gamma accessory 55 kDa subunit; DNA polymerase subunit gamma 2, mitochondrial; DNA polymerase subunit gamma-2; DPOG2_HUMAN; HP55; Mitochondrial DNA polymerase accessory subunit; Mitochondrial polymerase gamma 2; MtPolB; OTTMUSP00000003758; p55; PEOA4; POLB; PolG beta; PolG-beta; POLG2; POLGB; Polymerase, gamma 2; RP23-247J12.3; p55; mitochondrial DNA polymerase subunit gamma-2; DNA polymerase gamma accessory 55 kDa subunit; mitochondrial DNA polymerase accessory subunit; mitochondrial DNA polymerase, accessory subunit; POLB; PEOA4; POLGB; POLG-BETA;
Entrez Gene ID	11232
Protein Refseq	NP_009146
UniProt ID	E5KS15
Chromosome Location	17q
Pathway	DNA polymerase gamma complex, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
Function	ATP binding; DNA binding; DNA-directed DNA polymerase activity; glycine-tRNA ligase activity; nucleotide binding; nucleotidyltransferase activity; protein binding; single-stranded DNA binding; transferase activity;