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POLG2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP2838c

Specification

POLG2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9UHN1

POLG2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 11232

Other Names
DNA polymerase subunit gamma-2, mitochondrial, DNA polymerase gamma accessory 55 kDa subunit, p55, Mitochondrial DNA polymerase accessory subunit, MtPolB, PolG-beta, POLG2, MTPOLB

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2838c was selected from the Center region of human POLG2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

POLG2 Antibody (Center) Blocking Peptide - Protein Information

Name POLG2

Synonyms MTPOLB

Function
Mitochondrial polymerase processivity subunit. It regulates the polymerase and exonuclease activities promoting processive DNA synthesis. Binds to ss-DNA.

Cellular Location
Mitochondrion.

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POLG2 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

POLG2 Antibody (Center) Blocking Peptide - Images

POLG2 Antibody (Center) Blocking Peptide - Background

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).

POLG2 Antibody (Center) Blocking Peptide - References

Longley,M.J., Am. J. Hum. Genet. 78 (6), 1026-1034 (2006)Carrodeguas,J.A., J. Biol. Chem. 277 (51), 50008-50014 (2002)