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POLG

Reactivity: Human

Tested applications:WB

Recommended Dilution:WB 1:500 - 1:2000

Calculated MW:140kDa

Observed MW: Refer to figures

Immunogen:

Recombinant protein of human POLG

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

PEO; MDP1; SCAE; MIRAS; POLG1; POLGA; SANDO; MTDPS4A; MTDPS4B;

Catalog #:A8451

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:5428

Isotype: IgG

Swiss Prot:P54098

Purity: Affinity purification

For research use only.

Background:

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.

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