

## 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; MTDP4A; MTDP4B;

**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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