

## POLG RABBIT PAB

**Cat.#:** S221912

**Product Name:** Anti-POLG Rabbit Polyclonal Antibody

**Synonyms:** PEO; MDPI; SCAE; MIRAS; POLG1; POLGA; SANDO; MTDPS4A; MTDPS4B

**UNIPROT ID:** P54098 (Gene Accession - NP\_002684 )

**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.

**Immunogen:** Synthetic peptide of human POLG

**Applications:** ELISA, IHC

**Recommended Dilutions:** IHC: 20-100; ELISA: 5000-10000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

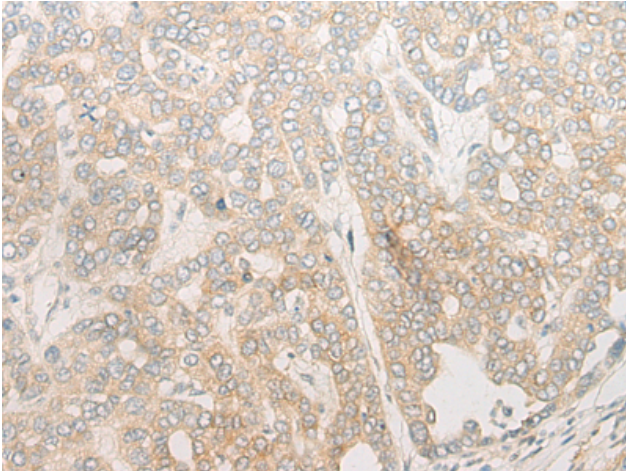
**Purification:** Antigen affinity purification

**Species Reactivity:** Human, Mouse, Rat

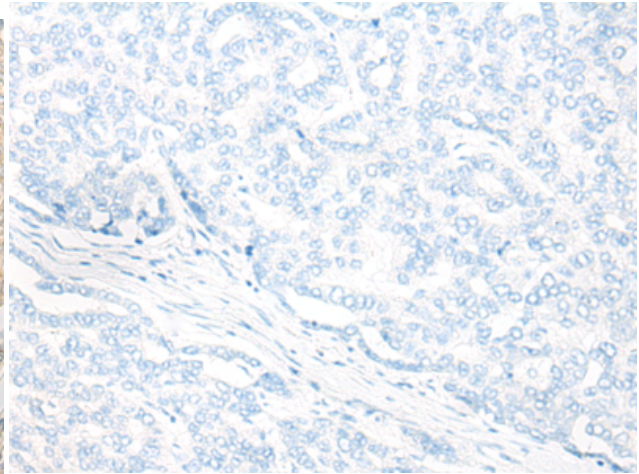
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Epigenetics and Nuclear Signaling, Metabolism

**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



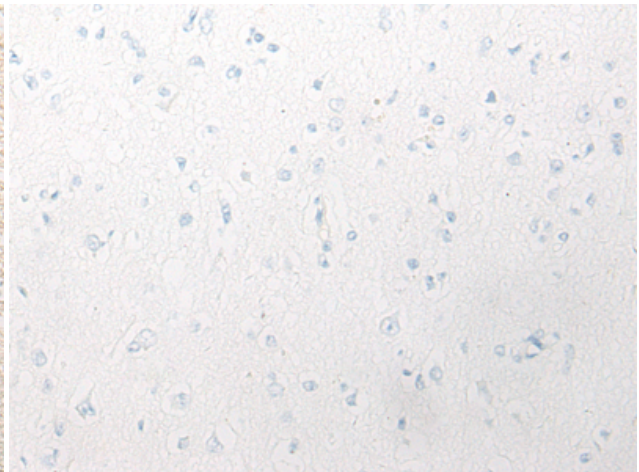
Immunohistochemistry analysis of paraffin embedded Human liver cancer tissue using 221912 (POLG Antibody) at a dilution of 1/20 (Cytoplasm and Cell membrane).



In comparison with the IHC on the left, the same paraffin-embedded Human liver cancer tissue is first treated with the synthetic peptide and then with 221912 (Anti-POLG Antibody) at dilution 1/20.



The image on the left is immunohistochemistry of paraffin-embedded Human brain tissue using 221912 (Anti-POLG Antibody) at a dilution of 1/20.



In comparison with the IHC on the left, the same paraffin-embedded Human brain tissue is first treated with synthetic peptide and then with D263726 (Anti-POLG Antibody) at dilution 1/20.