

A6695

Leader in Biomolecular Solutions for Life Science



POLG2 Rabbit pAb

Catalog No.: A6695

Basic Information

Observed MW

55kDa

Calculated MW

55kDa

Category

Polyclonal Antibody

Applications

WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity

Human,Mouse,Rat

Background

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.

Recommended Dilutions

WB 1:500 - 1:2000

IHC-P 1:50 - 1:200

IF/ICC 1:10 - 1:100

Immunogen Information

Gene ID

11232

Swiss Prot

Q9UHN1

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 216-485 of human POLG2 (NP_009146.2).

Synonyms

HP55; POLB; PEOA4; POLGB; MTPOLB; MTDPS16; MTDPS16A; MTDPS16B; POLG-BETA; POLG2

Contact

 www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

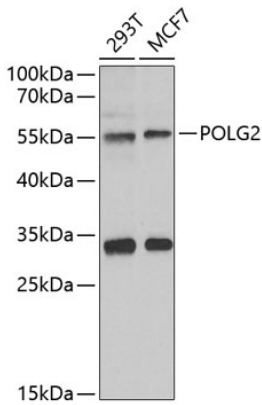
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Validation Data



Western blot analysis of various lysates using POLG2 Rabbit pAb (A6695) at 1:1000 dilution.

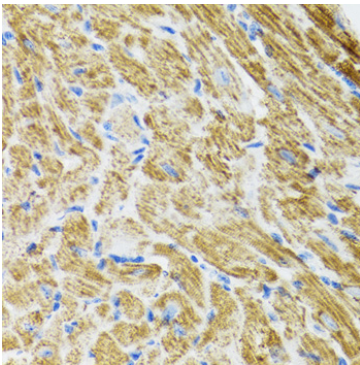
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

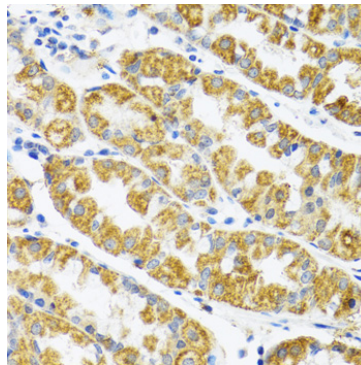
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

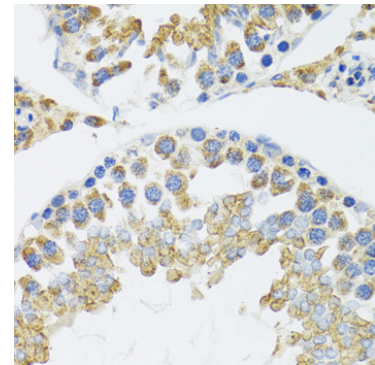
Exposure time: 90s.



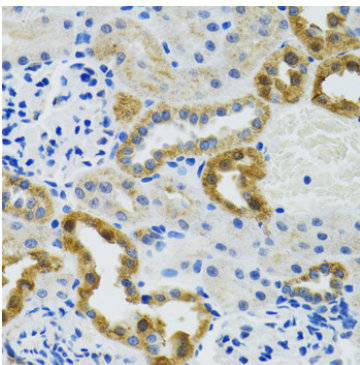
Immunohistochemistry analysis of paraffin-embedded Rat heart using POLG2 Rabbit pAb (A6695) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



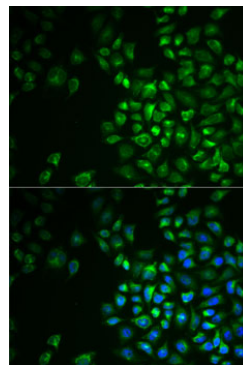
Immunohistochemistry analysis of paraffin-embedded Human stomach using POLG2 Rabbit pAb (A6695) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded Mouse testis using POLG2 Rabbit pAb (A6695) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney using POLG2 Rabbit pAb (A6695) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunofluorescence analysis of MCF7 cells using POLG2 Rabbit pAb (A6695). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.