

For Research Use Only

# POLG2 Polyclonal antibody

Catalog Number:10997-2-AP

Featured Product

7 Publications



## Basic Information

Catalog Number:

10997-2-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1424

GenBank Accession Number:

BC009194

GeneID (NCBI):

11232

UNIPROT ID:

Q9UHN1

Full Name:

polymerase (DNA directed), gamma 2, accessory subunit

Calculated MW:

55 kDa

Observed MW:

55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:20-1:200

IF/ICC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : COLO 320 cells, mouse colon tissue, HeLa cells

IHC : human colon cancer tissue,

IF/ICC : U-251 cells,

## Background Information

POLG2(DNA polymerase subunit gamma-2, mitochondrial) can stimulate the polymerase and exonuclease activities. Defects in POLG2 are the cause of progressive external ophthalmoplegia with mitochondrial DNA deletions autosomal dominant type 4 (PEOA4) [MIM:610131].Western blot result suggested that the POLG2 expressed in human fetal kidney and U-251 MG cell lines with a single band of 55kd.

## Notable Publications

Author	Pubmed ID	Journal	Application
Teppei Inatomi	34744028	Biochim Biophys Acta Mol Cell Res	WB
Yura Do	32470614	Mitochondrion	WB
Xinbin Zhao	28397817	Sci Rep	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

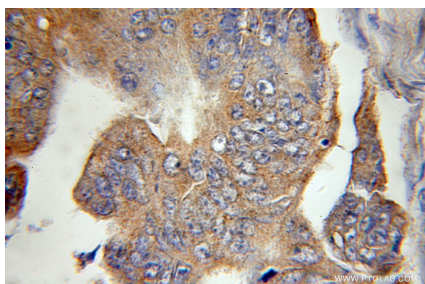
T: 4006900926

E: Proteintech-CN@ptglab.com

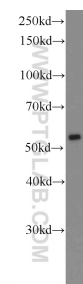
W: ptgcn.com

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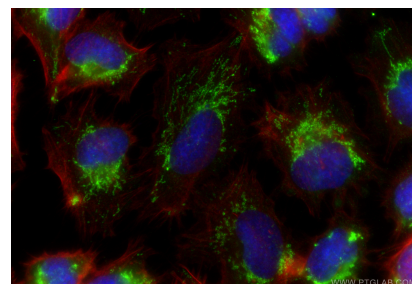
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human colon cancer using 10997-2-AP (POLG2 antibody) at dilution of 1:100 (under 10x lens).



COLO 320 cells were subjected to SDS PAGE followed by western blot with 10997-2-AP (POLG2 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed U-251 cells using POLG2 antibody (10997-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).