

For Research Use Only

# DNA2 Polyclonal antibody

Catalog Number: 21599-1-AP



## Basic Information

### Catalog Number:

21599-1-AP

### Size:

150ul, Concentration: 200 ug/ml by Nanodrop and 247 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG16206

### GenBank Accession Number:

BC111740

### GeneID (NCBI):

1763

### UNIPROT ID:

P51530

### Full Name:

DNA replication helicase 2 homolog (yeast)

### Calculated MW:

1060 aa, 120 kDa

### Observed MW:

125 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate  
IHC 1:50-1:500

## Applications

### Tested Applications:

IP, IHC, ELISA

### Species Specificity:

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:

IP: HEK-293 cells,

IHC: human liver cancer tissue, human cervical cancer tissue

## Background Information

DNA2 (DNA replication ATP-dependent helicase/nuclease DNA2) is also named as DNA2L, KIAA0083 and belongs to the DNA2/NAM7 helicase family. This protein includes 2 domains: DNA replication nuclease and DNA replication ATP-dependent helicase. It is a conserved helicase/nuclease involved in the maintenance of mitochondrial and nuclear DNA stability and it can interact with DNA polymerase gamma and stimulating its activity. It can also process intermediate 5' flap structures occurring in DNA replication long-patch base excision repair in mitochondria. It has 4 isoforms produced by alternative splicing. This antibody is specific to DNA2.

## 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

\*\*\* 20ul sizes contain 0.1% BSA

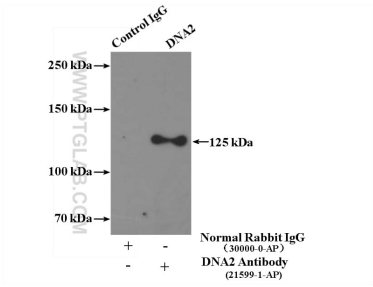
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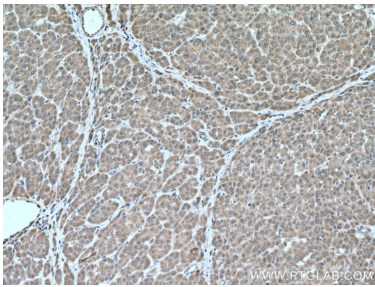
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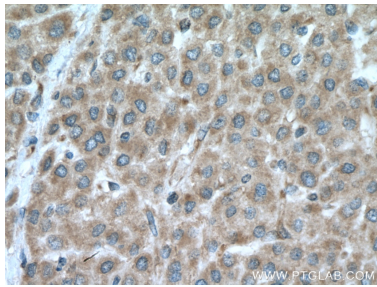
Selected Validation Data



IP result of anti-DNA2 (IP:21599-1-AP, 4ug; Detection:21599-1-AP 1:300) with HEK-293 cells lysate 2600ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 21599-1-AP (DNA2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 21599-1-AP (DNA2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).