

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

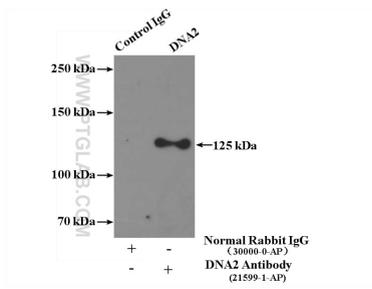
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

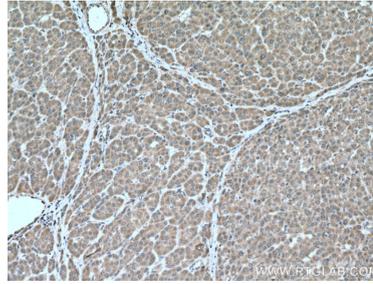
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

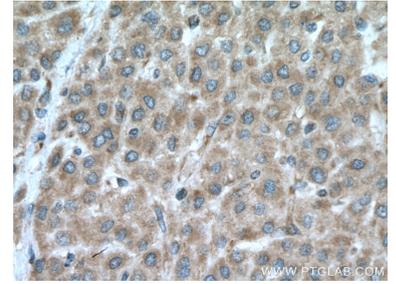
Selected Validation Data



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).