

For Research Use Only

DNA Ligase I Polyclonal antibody

Catalog Number: 18051-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

18051-1-AP

Size:

150ul, Concentration: 500 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12508

GenBank Accession Number:

BC108318

GeneID (NCBI):

3978

UNIPROT ID:

P18858

Full Name:

ligase I, DNA, ATP-dependent

Calculated MW:

919 aa, 102 kDa

Observed MW:

130 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IP, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, 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 : HeLa cells, A431 cells, Jurkat cells

IP : HepG2 cells,

IHC : human spleen tissue, human brain tissue, human placenta tissue, human testis tissue

Background Information

DNA ligase I (LIG1) joins DNA strand breaks during DNA replication and repair transactions and contributes to genome integrity. 18051-1-AP is raised against the C-terminal 670-919 aa residues of the human DNA ligase 1.

Notable Publications

Author	Pubmed ID	Journal	Application
Robert M Vaughan	33097091	Epigenetics Chromatin	WB
Yuangao Wang	34671165	Nature	WB
Patrick Maffucci	30395541	J Clin Invest	WB,IP

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

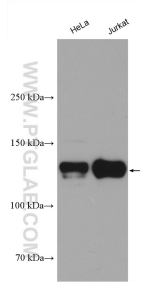
For technical support and original validation data for this product please contact:

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

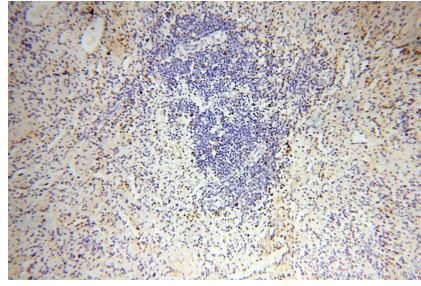
E: proteintech@ptglab.com
W: ptglab.com

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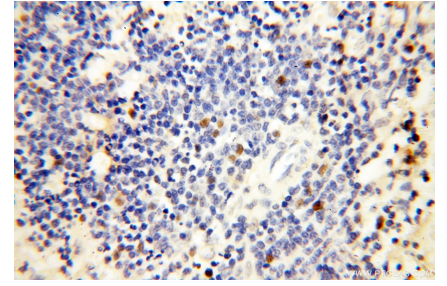
Selected Validation Data



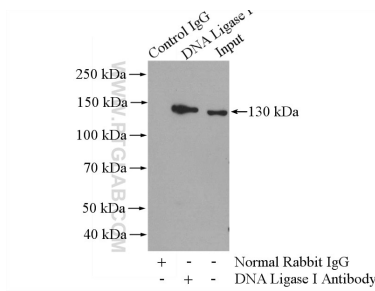
Various lysates were subjected to SDS PAGE followed by western blot with 18051-1-AP (DNA Ligase I antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human spleen using 18051-1-AP (DNA Ligase I antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human spleen using 18051-1-AP (DNA Ligase I antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-DNA Ligase I (IP:18051-1-AP, 4ug; Detection:18051-1-AP 1:500) with HepG2 cells lysate 3200ug.