

For Research Use Only

# TOP2A-Specific Polyclonal antibody



Catalog Number: 20233-1-AP

Featured Product

18 Publications

## Basic Information

### Catalog Number:

20233-1-AP

### Size:

800 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_001067

### GeneID (NCBI):

7153

### UNIPROT ID:

P11388

### Full Name:

topoisomerase (DNA) II alpha 170kDa

### Calculated MW:

174 kDa

### Observed MW:

170-177 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

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

IHC 1:20-1:200

IF 1:10-1:100

## Applications

### Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

### Cited Applications:

WB, IF, IHC

### Species Specificity:

human

### 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 : HeLa cells, HepG2 cells, L02 cells

IP : HeLa cells,

IHC : human spleen tissue,

IF : HepG2 cells,

## Background Information

TOP2A, also named as TOP2, belongs to the type II topoisomerase family. Topoisomerase II makes double-strand breaks. TOP2 control the topological states of DNA by transient breakage and subsequent rejoining of DNA strands. TOP2A may play a role in regulating the period length of ARNTL/BMAL1 transcriptional oscillation. DNA topoisomerase IIa (170 kDa, TOP2a/170) is essential in proliferating cells by resolving DNA topological entanglements during chromosome condensation, replication, and segregation.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yi Fang	31662984	Biomed Res Int	WB
Xuefeng Li	25237769	Oncotarget	WB
Carlo Catrini	33091733	Cancer Treat Res Commun	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:

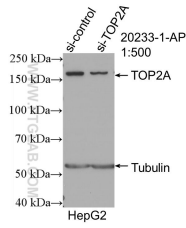
T: 4006900926

E: Proteintech-CN@ptglab.com

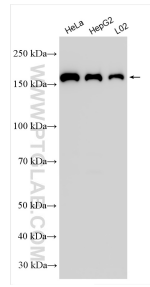
W: ptgcn.com

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

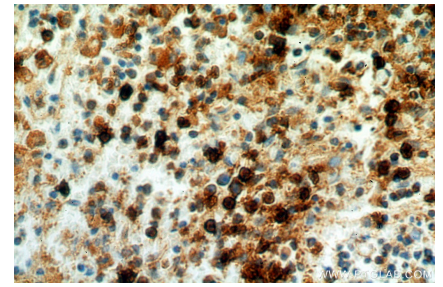
## Selected Validation Data



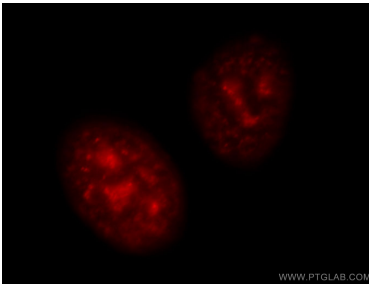
WB result of TOP2A-specific antibody (20233-1-AP; 1:500; incubated at room temperature for 1.5 hours) with sh-Control and sh-TOP2A-Specific transfected HepG2 cells.



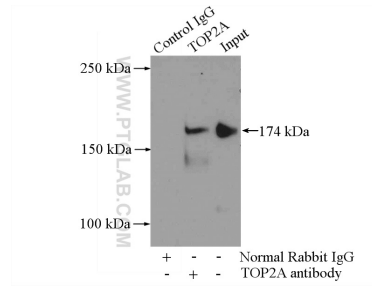
Various lysates were subjected to SDS PAGE followed by western blot with 20233-1-AP (TOP2A-Specific antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human spleen using 20233-1-AP (TOP2A-Specific antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using TOP2A antibody 20233-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-TOP2A-Specific (IP:20233-1-AP, 4ug; Detection:20233-1-AP 1:500) with HeLa cells lysate 2000ug.