

For Research Use Only

# TOP2B Polyclonal antibody

Catalog Number: 20549-1-AP

Featured Product

14 Publications



## Basic Information

### Catalog Number:

20549-1-AP

### Size:

400 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_001068

### GeneID (NCBI):

7155

### UNIPROT ID:

Q02880

### Full Name:

topoisomerase (DNA) II beta 180kDa

### Calculated MW:

183 kDa

### Observed MW:

183 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:20-1:200

IF/ICC 1:400-1:1600

## Applications

### Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

### Cited Applications:

WB, IHC, IF, IP, ChIP

### Species Specificity:

human

### Cited Species:

human, mouse

### Positive Controls:

WB : HeLa cells, HepG2 cells, K-562 cells

IP : HepG2 cells,

IHC : human cervical cancer tissue,

IF/ICC : HeLa cells, HepG2 cells

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

## Background Information

TOP2B belongs to the type II topoisomerase family. TOP2B control topological states of DNA by transient breakage and subsequent rejoining of DNA strands. TOP2B makes double-strand breaks. It is indirectly involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene. The antibody is specific to TOP2B.

## Notable Publications

Author	Pubmed ID	Journal	Application
Carlo Cattrini	33091733	Cancer Treat Res Commun	WB
Lin-Yang Sun	30297860	Sci Rep	
Shangxian Luan	34727218	Naunyn Schmiedebergs Arch Pharmacol	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:

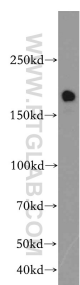
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

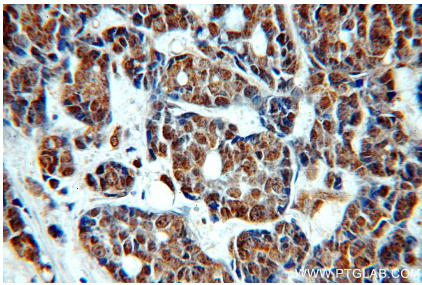
W: [ptgcn.com](http://ptgcn.com)

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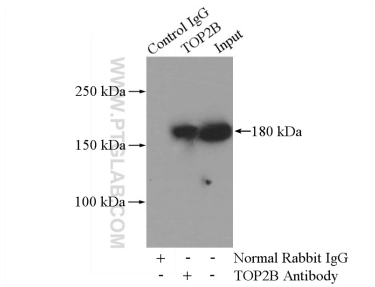
Selected Validation Data



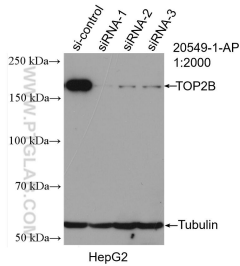
HeLa cells were subjected to SDS PAGE followed by western blot with 20549-1-AP (TOP2B antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



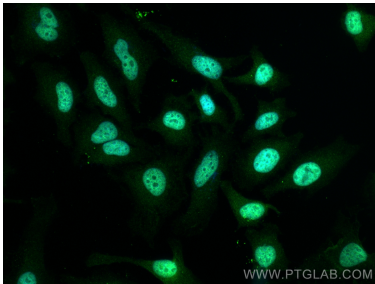
Immunohistochemical analysis of paraffin-embedded human cervical cancer using 20549-1-AP (TOP2B antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-TOP2B (IP:20549-1-AP, 4ug; Detection:20549-1-AP 1:300) with HepG2 cells lysate 3200ug.



WB result of TOP2B antibody (20549-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TOP2B transfected HepG2 cells.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TOP2B antibody (20549-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).