

For Research Use Only

TOP2A Polyclonal antibody

Catalog Number: 24641-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

24641-1-AP

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG19551

GenBank Accession Number:

BC140791

GeneID (NCBI):

7153

UNIPROT ID:

P11388

Full Name:

topoisomerase (DNA) II alpha 170kDa

Calculated MW:

1531 aa, 174 kDa

Observed MW:

174 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 1:50-1:500

IF 1:50-1:500

Applications

Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

WB, IP, IF, IHC

Species Specificity:

human, mouse

Cited Species:

human, mouse

Positive Controls:

WB : HEK-293T cells, HeLa cells, HepG2 cells, MDA-MB-231 cells

IP : HeLa cells,

IHC : human pancreas cancer tissue, human breast cancer tissue

IF : A431 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

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
Jun-Song Liu	25333415	Oncol Rep	
Jingjun Wu	26612655	Chem Biol Interact	WB
Li Wang	33236014	bioRxiv	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:

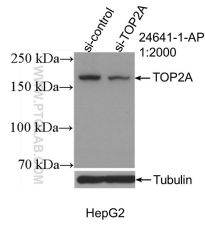
T: 4006900926

E: Proteintech-CN@ptglab.com

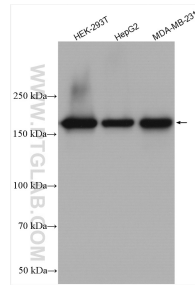
W: ptgcn.com

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

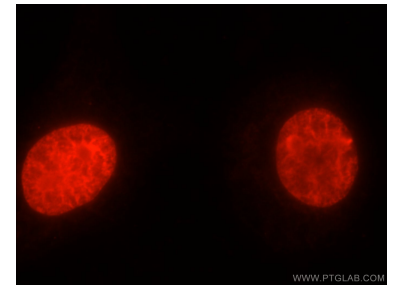
Selected Validation Data



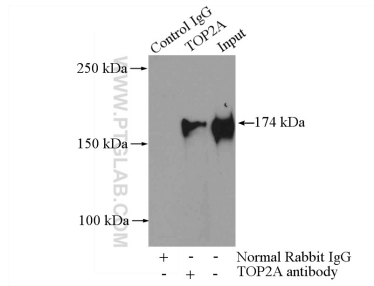
WB result of TOP2A antibody (24641-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TOP2A transfected HepG2 cells.



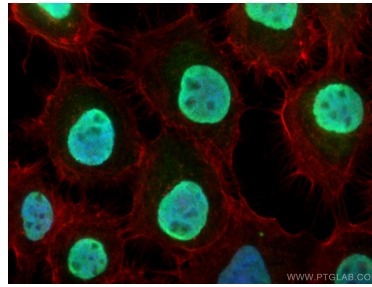
Various lysates were subjected to SDS PAGE followed by western blot with 24641-1-AP (TOP2A antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



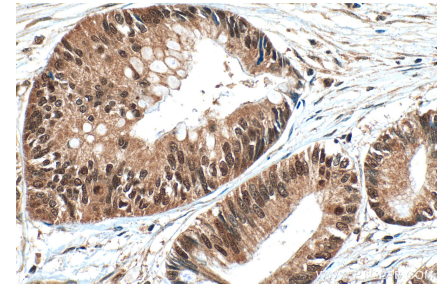
Immunofluorescent analysis of A431 cells using 24641-1-AP (TOP2A antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



IP result of anti-TOP2A (IP:24641-1-AP, 4 μ g; Detection:24641-1-AP 1:1000) with HeLa cells lysate 2000 μ g.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using TOP2A antibody (24641-1-AP) at dilution of 1:200 and CoraLite $^{\text{®}}$ 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 24641-1-AP (TOP2A antibody) at dilution of 1:200 (under 40 \times lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).