For Research Use Only

TOP1 Polyclonal antibody

Catalog Number:20705-1-AP 14 Publications

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Basic Information

Catalog Number:
20705-1-AP

Size:
700 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_003286

GeneID (NCBI):
7150

UNIPROT ID:
P11387

Full Name:
topoisomerase (DNA) I

Calculated MW:
91 kDa

Observed MW:
90 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:500-1:2000
IF 1:50-1:500

Applications

Tested Applications:
WB,IHC,IF/ICC,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 : L02 cells,

IHC : human stomach cancer tissue, human colon cancer tissue, human cervical cancer tissue, human ovary tumor tissue

IF : HepG2 cells,

Background Information

TOP1 belongs to the eukaryotic type I topoisomerase family. The reaction catalyzed by topoisomerases leads to the conversion of one topological isomer of DNA to another. A chromosomal aberration involving TOP1 is found in a form of therapy-related myelodysplastic syndrome. The antibody is specific to TOP1.

Notable Publications

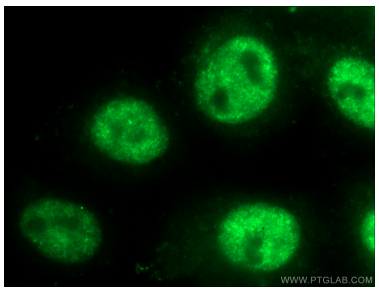
Author	Pubmed ID	Journal	Application
Huijing Yin	31501431	Cell Death Dis	WB
Jiao Li	31758083	Sci Rep	WB
Jingjun Wu	26612655	Chem Biol Interact	WB

Storage

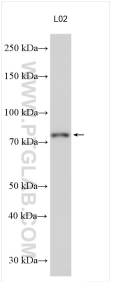
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

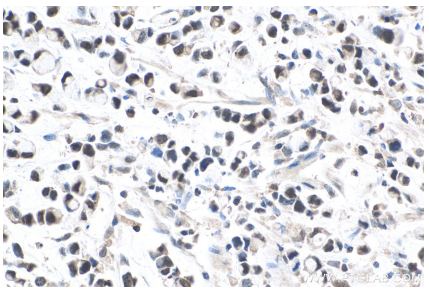
Selected Validation Data



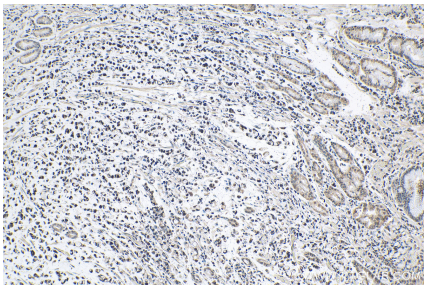
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 20705-1-AP (TOP1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



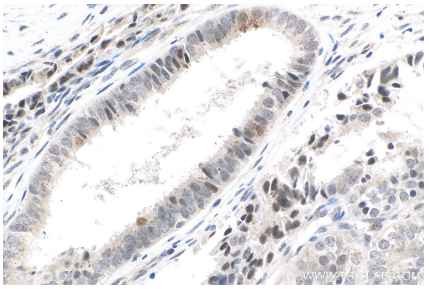
Various lysates were subjected to SDS PAGE followed by western blot with 20705-1-AP (TOP1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



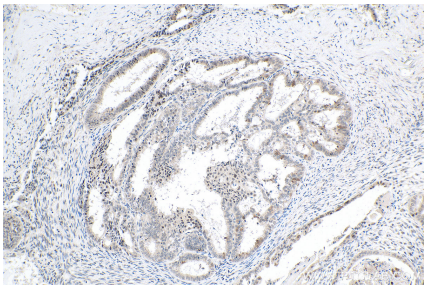
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 20705-1-AP (TOP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



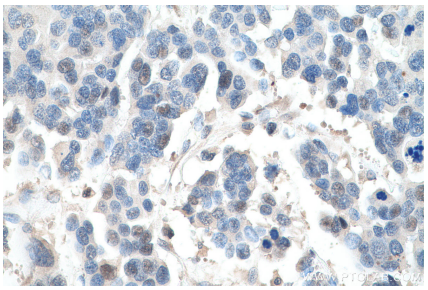
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 20705-1-AP (TOP1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



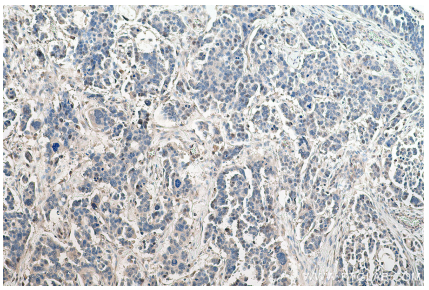
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 20705-1-AP (TOP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



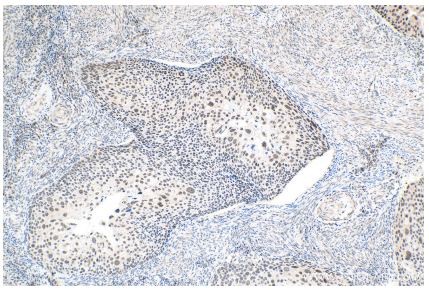
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 20705-1-AP (TOP1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



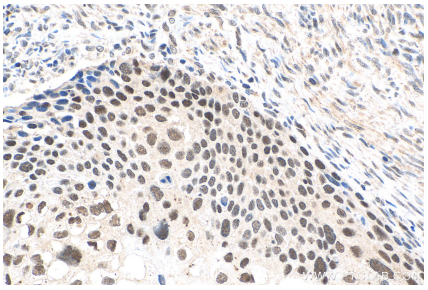
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 20705-1-AP (TOP1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 20705-1-AP (TOP1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 20705-1-AP (TOP1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 20705-1-AP (TOP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).