

DNA topoisomerase I (TOP1) Monoclonal Antibody

CAB12409

Description

This DNA topoisomerase I (TOP1) Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Product Information

SKU:	CAB12409
Contents:	20 μ L, 100 μ L Bradford Reagent: 1 vial (2ml)
Category:	Monoclonal Antibody
Synonyms:	TOPI, DNA topoisomerase I (TOP1)
Clone:	ARC0708
Applications:	WB IHC-P IF/ICC IP ELISA
Conjugation:	Unconjugated
Reactivity:	Human, Mouse, Rat

Antibody Data

Gene ID:	7150
Uniprot:	AB_2861661
Host Species:	Rabbit
Purification:	Affinity purification
Observed MW:	100kDa
Calculated MW:	91kDa

Preparation & Storage

Storage: Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Store Bradford Reagent at Room Temperature for 1 Year.

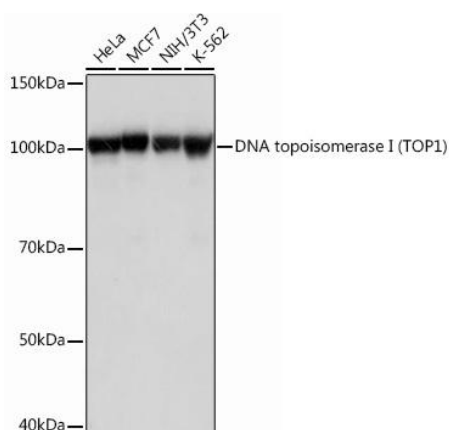
Positive Sample: Mouse thymus, HeLa, MCF7, NIH/3T3, K-562

Recommended Dilutions:

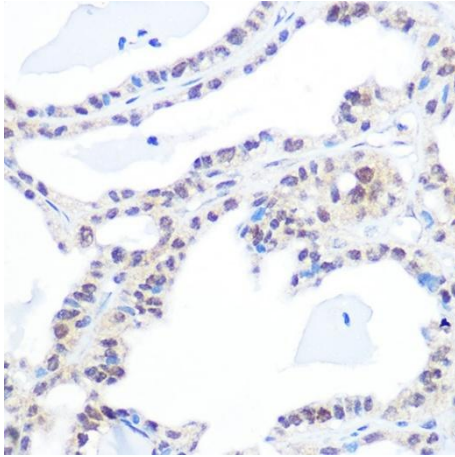
WB	1:1000 - 1:6000
IHC-P	1:200 - 1:800
IF/ICC	1:100 - 1:1000
IP	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol

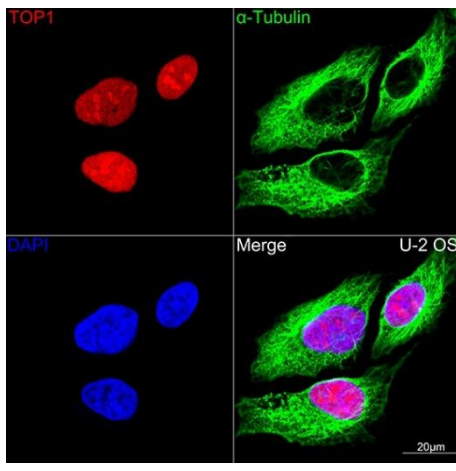
Validation Data



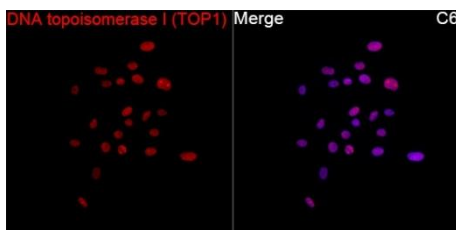
Western blot analysis of various lysates using DNA topoisomerase I (DNA topoisomerase I) Rabbit mAb (CAB12409) at 1 : 1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 1s.



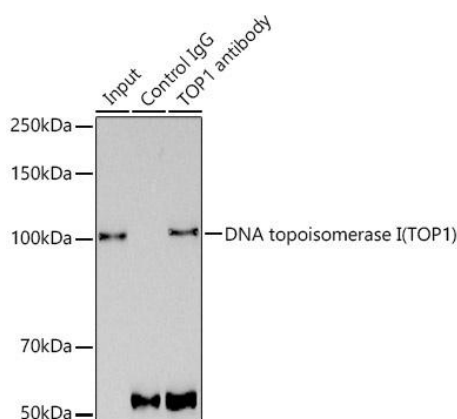
Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer using DNA topoisomerase I (DNA topoisomerase I) Rabbit mAb (CAB12409) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Confocal imaging of U-2 OS cells using DNA topoisomerase I Rabbit mAb (CAB12409,dilution 1:100)(Red). The cells were counterstained with α-Tubulin Mouse mAb (CABC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



Immunofluorescence analysis of cells using DNA topoisomerase I Rabbit mAb (CAB12409) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L)(CABS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 300 μg extracts of cells using 3 μg DNA topoisomerase I antibody (CAB12409). Western blot was performed from the immunoprecipitate using DNA topoisomerase I antibody (CAB12409) at a dilution of 1:1000.