

DNA topoisomerase II alpha (TOP2A) Monoclonal Antibody

CAB4389

Description

This DNA topoisomerase II alpha (TOP2A) 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: CAB4389

Contents: 20 µL, 100 µL

Bradford Reagent: 1 vial (2ml)

Category: Monoclonal Antibody

Synonyms: TOP2, TP2A, TOPIIA, TOP2alpha, DNA topoisomerase II alpha (TOP2A)

Clone: ARC0994

Applications: WB IHC-P IF/ICC ELISA IF-P

Conjugation: Unconjugated

Reactivity: Human, Mouse, Rat

Antibody Data

Gene ID: 7153

Uniprot: AB_2863260

Host Species: Rabbit

Purification: Affinity purification

Observed MW: 174kDa

Calculated MW: 174kDa/178kDa/179kDa/183kDa

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.

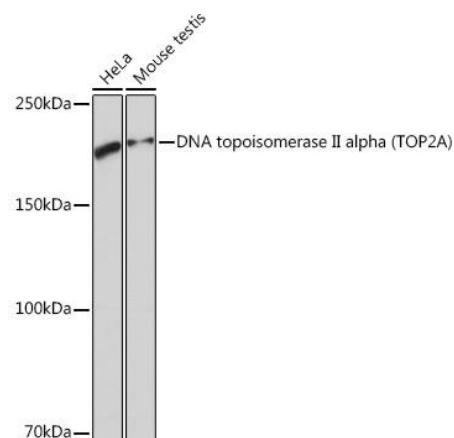
Positive Sample: HeLa, Mouse testis

Recommended Dilutions:

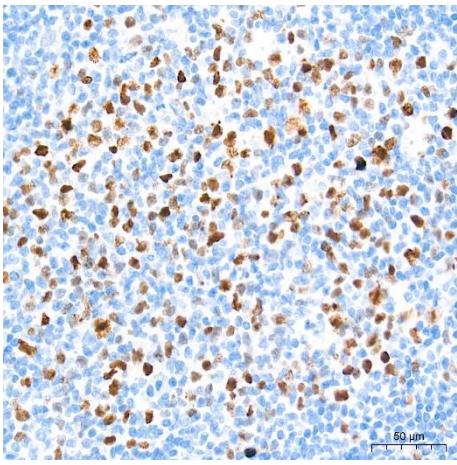
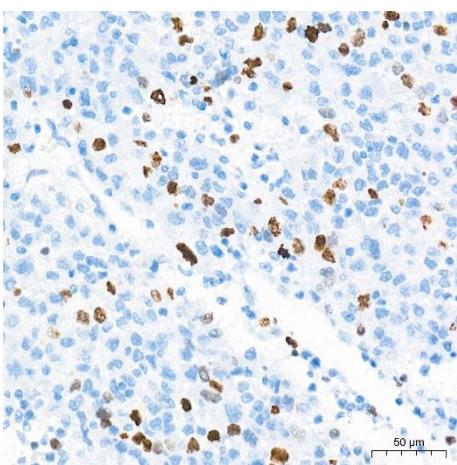
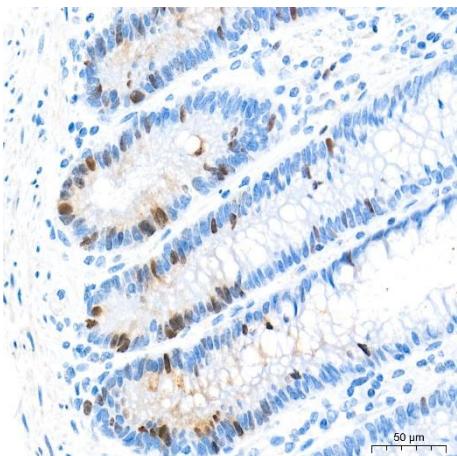
WB	1:1000 - 1:6000
IF/ICC	1:200 - 1:1200
IF-P	1:200 - 1:1200
IHC-P	1:300 - 1:1200
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

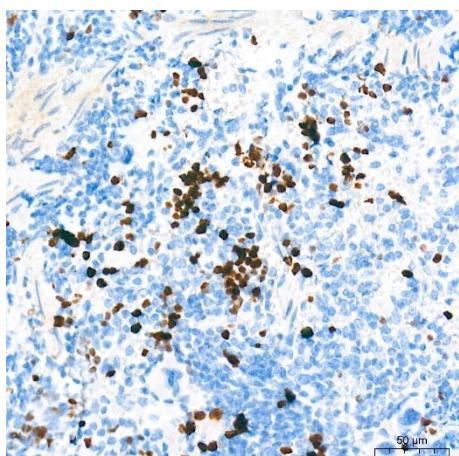
Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol

Validation Data

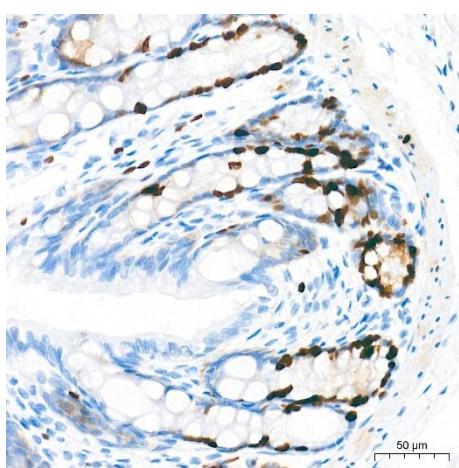


Western blot analysis of various lysates using DNA topoisomerase II alpha (TOP2A) Rabbit mAb (CAB4389) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 3s.

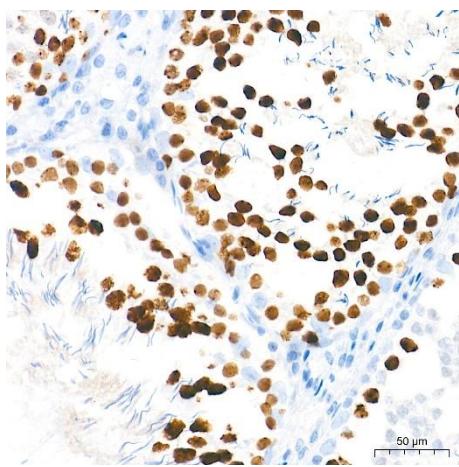




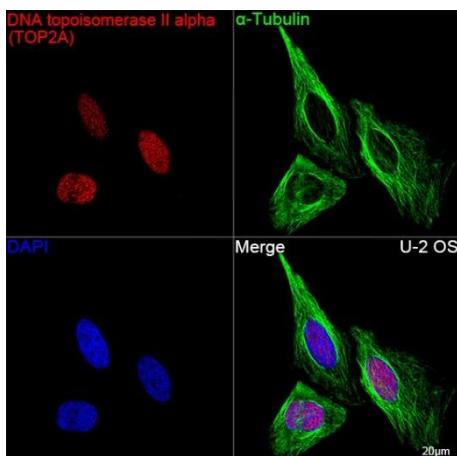
Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using DNA topoisomerase II alpha (TOP2A) Rabbit mAb (CAB4389) at a dilution of 1:800 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



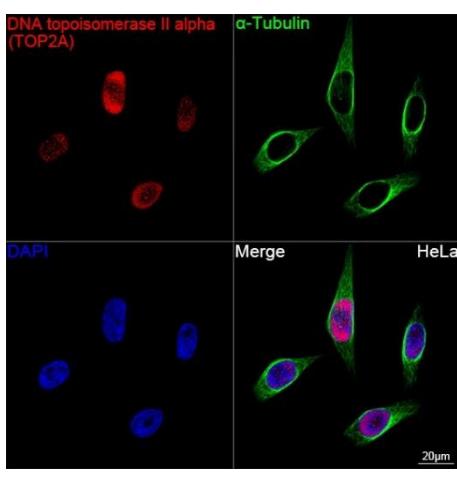
Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using DNA topoisomerase II alpha (TOP2A) Rabbit mAb (CAB4389) at a dilution of 1:800 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



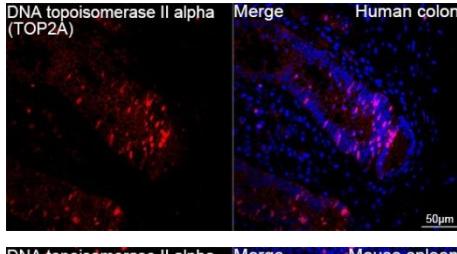
Immunohistochemistry analysis of paraffin-embedded Rat testis tissue using DNA topoisomerase II alpha (TOP2A) Rabbit mAb (CAB4389) at a dilution of 1:800 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



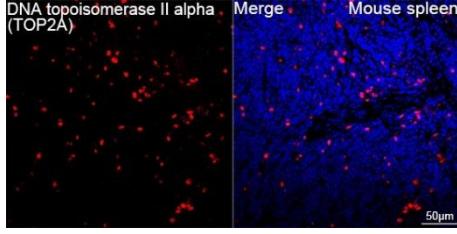
Confocal imaging of U-2 OS cells using DNA topoisomerase II alpha (TOP2A) Rabbit mAb (CAB4389, dilution 1:400) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



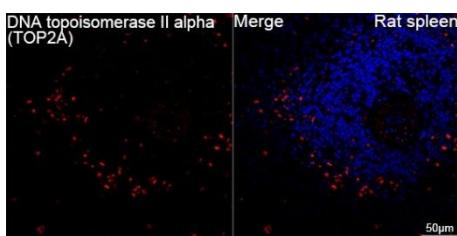
Confocal imaging of HeLa cells using DNA topoisomerase II alpha (TOP2A) Rabbit mAb (CAB4389, dilution 1:400) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



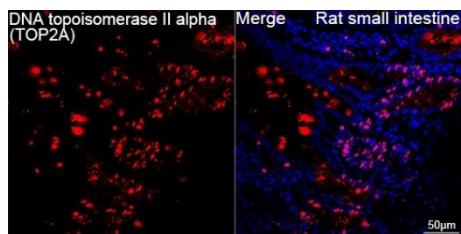
Confocal imaging of Human colon cells using DNA topoisomerase II alpha (TOP2A) Rabbit mAb (CAB4389, dilution 1:400) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of paraffin-embedded Mouse spleen tissue using DNA topoisomerase II alpha (TOP2A) Rabbit mAb (CAB4389, dilution 1:400) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Rat spleen tissue using DNA topoisomerase II alpha (TOP2A) Rabbit mAb (CAB4389, dilution 1:400) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Rat small intestine tissue using DNA topoisomerase II alpha (TOP2A) Rabbit mAb (CAB4389, dilution 1:400) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.