Topoisomerase II alpha/TOP2A Rabbit mAb

Catalog No.: A26497

Recombinant | 1 Publications

Basic Information

Observed MW
174kDa

Calculated MW
174kDa

Category
Monoclonal Antibodies

Applications
WB, IF/ICC, IF-P, IHC-P, mIHC, ELISA

Cross Reactivity
Human, Mouse, Rat

Clone No.
ARC70016

Background

This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and replication. It catalyzes the transient breaking and rejoining of two strands of duplex DNA which allows the strands to pass through one another, thus altering the topology of DNA. Two forms of this enzyme exist as likely products of a gene duplication event. The gene encoding this form, alpha, is localized to chromosome 17 and the beta gene is localized to chromosome 3. The gene encoding this enzyme functions as the target for several anticancer agents and a variety of mutations in this gene have been associated with the development of drug resistance. Reduced activity of this enzyme may also play a role in ataxia-telangiectasia.

Recommended Dilutions

WB	1:1000 - 1:4000
IF/ICC	1:1000 - 1:4000
IF-P	1:1000 - 1:4000
IHC-P	1:1000 - 1:4000
mIHC	1:1500 - 1:6000
ELISA	Recommended starting concentration is 1 μg /mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
7153

Swiss-Prot
P11388

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
TOP2; TP2A; TOPIIA; TOP2alpha

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

Product Information

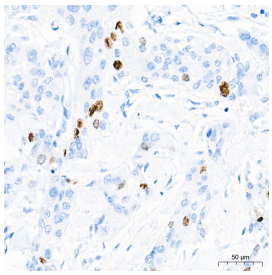
Source
Rabbit

Isotype
IgG

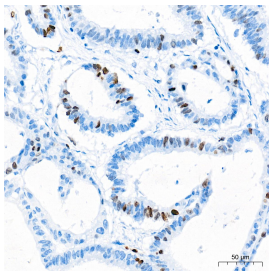
Purity
Affinity purification

Storage
Store at -20℃

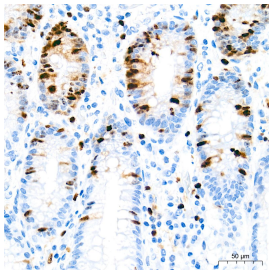
Validation Data



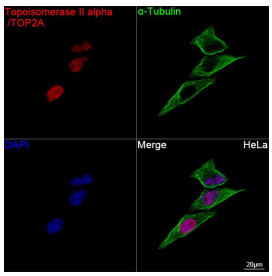
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



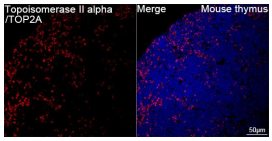
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497) at a dilution of 1: 2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



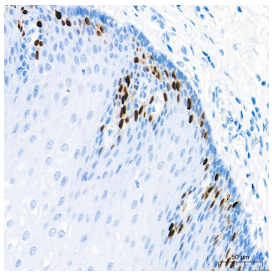
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



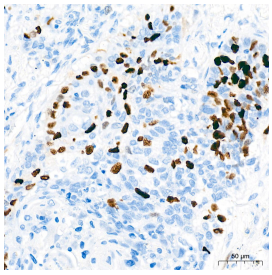
Confocal imaging of HeLa cells using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497, dilution 1:2000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



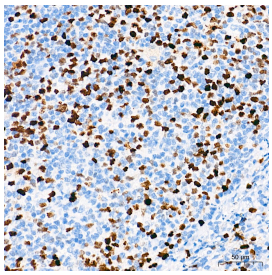
Confocal imaging of paraffin-embedded Mouse thymus tissue using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497, dilution 1:2000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



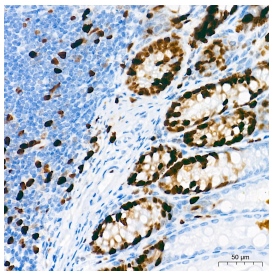
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



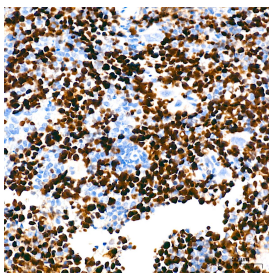
Immunohistochemistry analysis of paraffin-embedded Human lung squamous carcinoma tissue using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



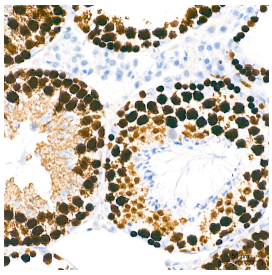
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



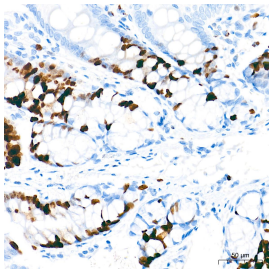
Immunohistochemistry analysis of paraffin-embedded Mouse intestin tissue using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



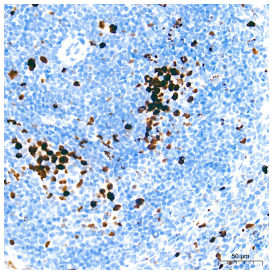
Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



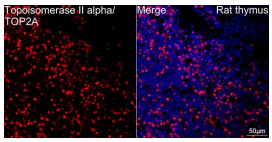
Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



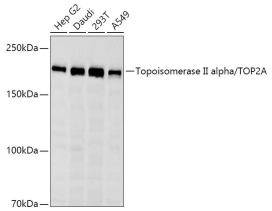
Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



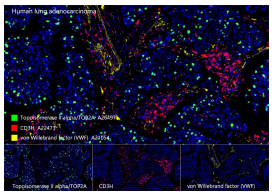
Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Confocal imaging of paraffin-embedded Rat thymus tissue using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497, dilution 1:2000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, 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.



Western blot analysis of various lysates using Topoisomerase II alpha/TOP2A Rabbit mAb (A26497) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



The multiplex IHC analysis on paraffin-embedded Human lung adenocarcinoma tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : Topoisomerase II alpha/TOP2A Rabbit mAb (A26497, 1:3000) with TSA-TYR-520 (Green), and CD3H Rabbit mAb (A22473, 1:500) with TSA-TYR-570 (Red), and von Willebrand factor (VWF) Rabbit mAb (A21054, 1: 3000) with TSA-TYR-690 (Yellow). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.