

Anti-Topoisomerase II alpha antibody [EP1102Y] ab52934

Recombinant RabMAb

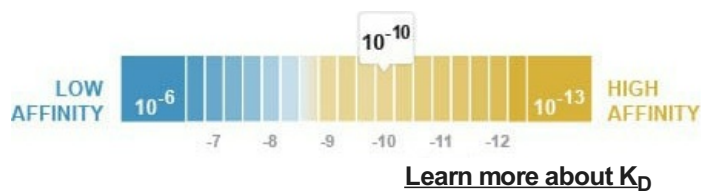
★★★★★ 1 Abreviews 53 References 10 Images

Overview

Product name	Anti-Topoisomerase II alpha antibody [EP1102Y]
Description	Rabbit monoclonal [EP1102Y] to Topoisomerase II alpha
Host species	Rabbit
Specificity	Please be aware that the antibody provided positive results in cell lysate samples but negative results in some tissue lysate samples.
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Topoisomerase II alpha aa 1500-1600 (C terminal). The exact sequence is proprietary. Database link: P11388
Positive control	HeLa whole cell lysate (ab150035); human breast carcinoma tissue. WB: HeLa, Jurkat, Neuro-2a and PC-12 whole cell lysate; Human breast cancer, Mouse thymus lysate, Rat thymus lysate and Rat testis lysate
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.

Dissociation constant (K_D)K_D = 5.39 x 10⁻¹⁰ M**Storage buffer**

pH: 7.20

Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA

Purity

Protein A purified

Clonality

Monoclonal

Clone number

EP1102Y

Isotype

IgG

Applications**The Abpromise guarantee**Our **Abpromise guarantee** covers the use of ab52934 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/10000. Detects a band of approximately 174 kDa (predicted molecular weight: 174 kDa).
IHC-P	★★★★★ (1)	Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Application notes

Is unsuitable for Flow Cyt or ICC/IF.

Target**Function**

Control of topological states of DNA by transient breakage and subsequent rejoining of DNA strands. Topoisomerase II makes double-strand breaks.

Sequence similarities

Belongs to the type II topoisomerase family.

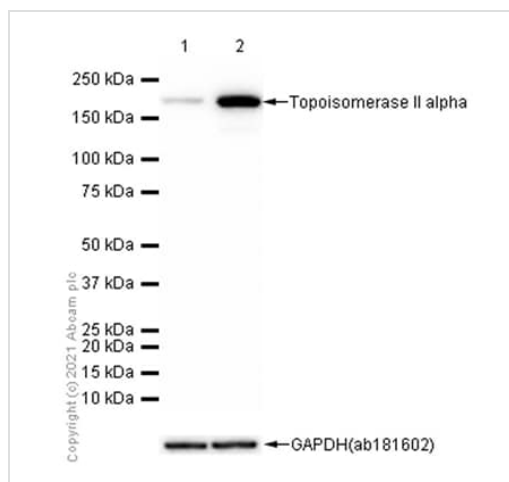
Post-translational modifications

Phosphorylation has no effect on catalytic activity.

Cellular localization

Cytoplasm. Nucleus > nucleoplasm. Generally located in the nucleoplasm.

Images



Western blot - Anti-Topoisomerase II alpha antibody
[EP1102Y] (ab52934)

All lanes : Anti-Topoisomerase II alpha antibody [EP1102Y]
(ab52934) at 1/1000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell)
whole cell lysate prepared in RIPA lysis method

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell)
whole cell lysate prepared in 1%SDS Hot lysis method 20µg

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000
dilution

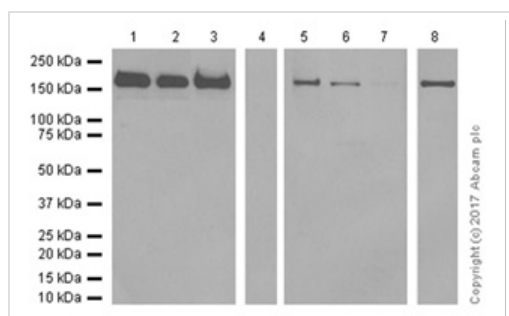
Predicted band size: 174 kDa

Exposure time: 7 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

All lysate were prepared using 1%SDS Hot lysis method.

We recommend to use 1%SDS Hot lysis prepare method to get
desired Western Blot results.



Western blot - Anti-Topoisomerase II alpha antibody
[EP1102Y] (ab52934)

All lanes : Anti-Topoisomerase II alpha antibody [EP1102Y]
(ab52934) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma) whole cell lysate

Lane 2 : Jurkat (human acute T cell leukemia) whole cell lysate

Lane 3 : Neuro-2a (mouse neuroblastoma) whole cell lysate

Lane 4 : Human breast cancer lysate

Lane 5 : Mouse thymus lysate

Lane 6 : PC-12 (rat adrenal gland pheochromocytoma) whole cell
lysate

Lane 7 : Rat thymus lysate

Lane 8 : Rat testis lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 174 kDa

Observed band size: 174 kDa

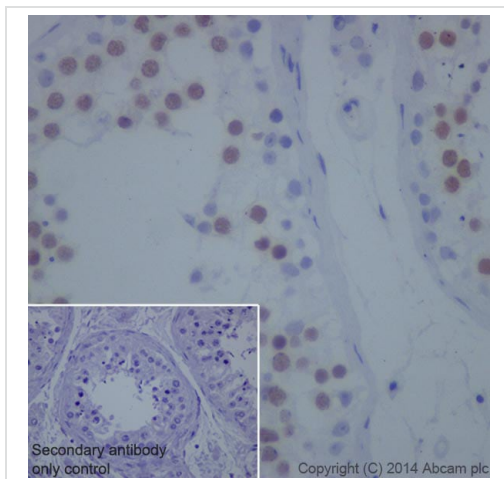
Exposure time:

Lanes 1-3: 1 second.

Lanes 4-7: 3 minutes.

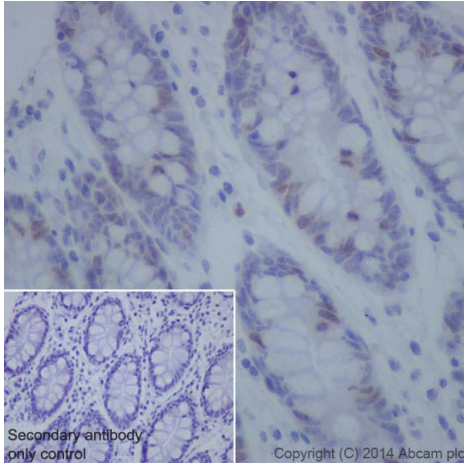
Lane 8: 7 seconds.

Blocking and dilution buffer: 5% NFDM/TBST.



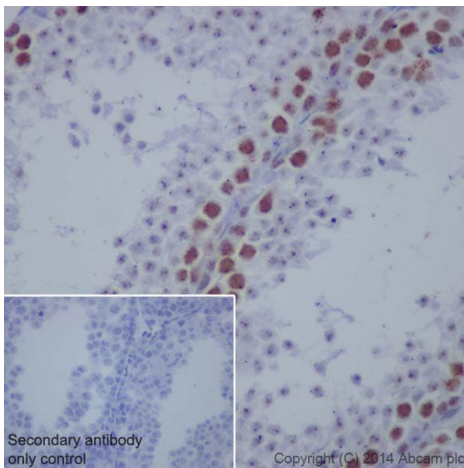
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human testis tissue labelling Topoisomerase II alpha with ab52934 at a dilution of 1/8000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Topoisomerase II alpha antibody [EP1102Y] (ab52934)



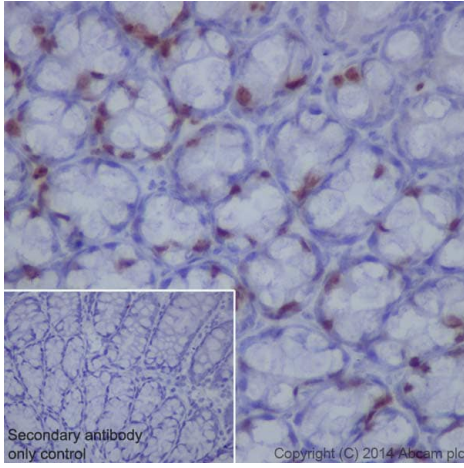
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Topoisomerase II alpha antibody [EP1102Y] (ab52934)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue labelling Topoisomerase II alpha with ab52934 at a dilution of 1/8000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



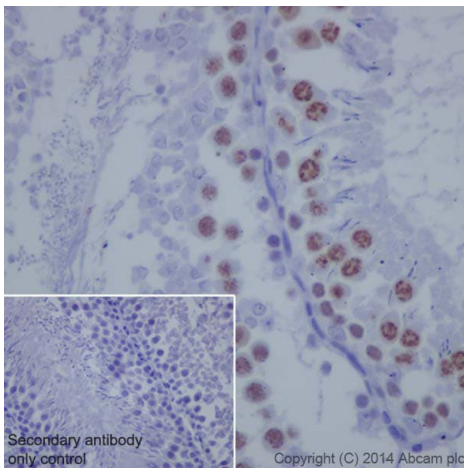
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Topoisomerase II alpha antibody [EP1102Y] (ab52934)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse testis tissue labelling Topoisomerase II alpha with ab52934 at a dilution of 1/8000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



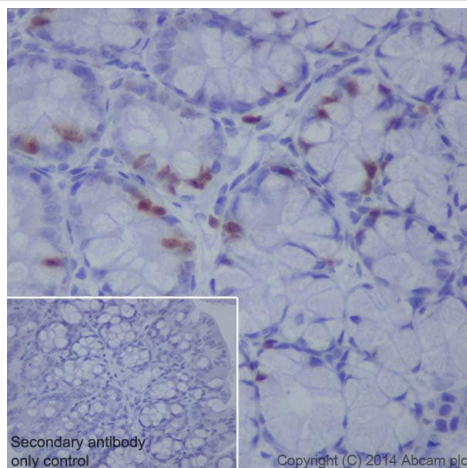
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Topoisomerase II alpha antibody [EP1102Y] (ab52934)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse colon tissue labelling Topoisomerase II alpha with ab52934 at a dilution of 1/8000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



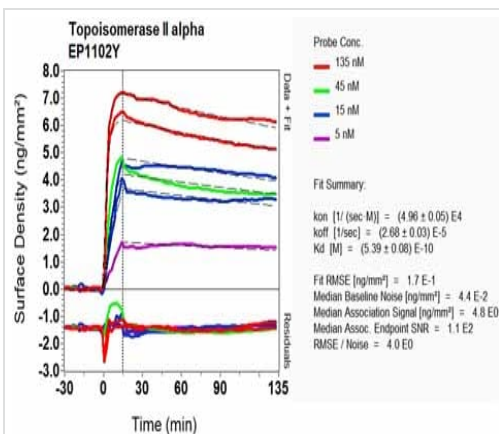
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Topoisomerase II alpha antibody [EP1102Y] (ab52934)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat testis tissue labelling Topoisomerase II alpha with ab52934 at a dilution of 1/8000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Topoisomerase II alpha antibody [EP1102Y] (ab52934)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat colon tissue labelling Topoisomerase II alpha with ab52934 at a dilution of 1/8000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



SPR Scanning - Anti-Topoisomerase II alpha antibody [EP1102Y] (ab52934)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Topoisomerase II alpha antibody [EP1102Y] (ab52934)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors