




Product datasheet

Anti-Topoisomerase II beta/TOP2B antibody ab235898

2 Images

Overview

Product name	Anti-Topoisomerase II beta/TOP2B antibody
Description	Rabbit polyclonal to Topoisomerase II beta/TOP2B
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Chinese hamster 
Immunogen	Recombinant fragment corresponding to Human Topoisomerase II beta/TOP2B aa 1400 to the C-terminus. Database link: Q02880-1  Run BLAST with  Run BLAST with
Positive control	IHC-P: Human cervical cancer tissue. ICC/IF: HeLa cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.03% Proclin 300 Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Protein G purified
Purification notes	Purity >95%
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab235898 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
ICC/IF		1/20 - 1/200.
IHC-P		1/20 - 1/200.

Target

Function

Control of topological states of DNA by transient breakage and subsequent rejoining of DNA strands. Topoisomerase II makes double-strand breaks. Indirectly involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene.

Sequence similarities

Belongs to the type II topoisomerase family.

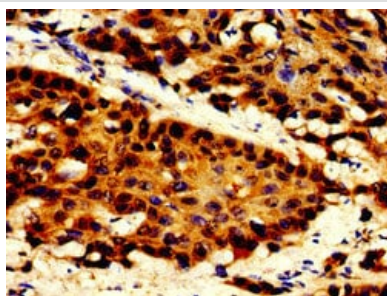
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

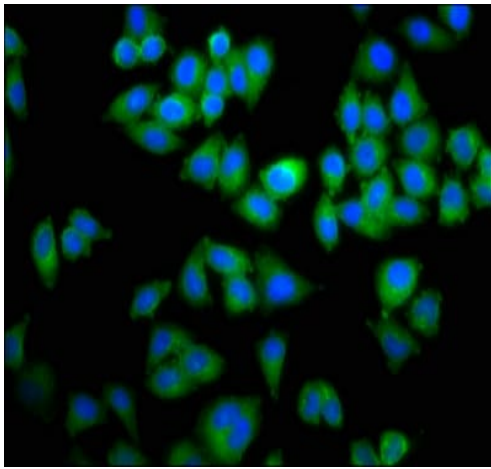
Cytoplasm. Nucleus > nucleolus.

Images



Paraffin-embedded human cervical cancer tissue stained for Topoisomerase II beta using ab235898 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Topoisomerase II beta/TOP2B antibody (ab235898)



Immunocytochemistry/ Immunofluorescence - Anti-Topoisomerase II beta/TOP2B antibody (ab235898)

HeLa (Human epithelial cell line from cervix adenocarcinoma) cells stained for Topoisomerase II beta/TOP2B (green) using ab235898 at 1/100 dilution in ICC/IF. Secondary antibody is an Alexa-Fluor® 488-conjugated Goat Anti-Rabbit IgG(H+L).

The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal goat serum. The cells were then incubated with the antibody overnight at 4°C.

Counterstained with DAPI.

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

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