


Anti-Topoisomerase II beta/TOP2B antibody ab72334

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Overview

Product name	Anti-Topoisomerase II beta/TOP2B antibody
Description	Rabbit polyclonal to Topoisomerase II beta/TOP2B
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Chimpanzee, Gorilla 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Whole cell lysate from Hela and 293T 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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab72334 in the following tested applications.

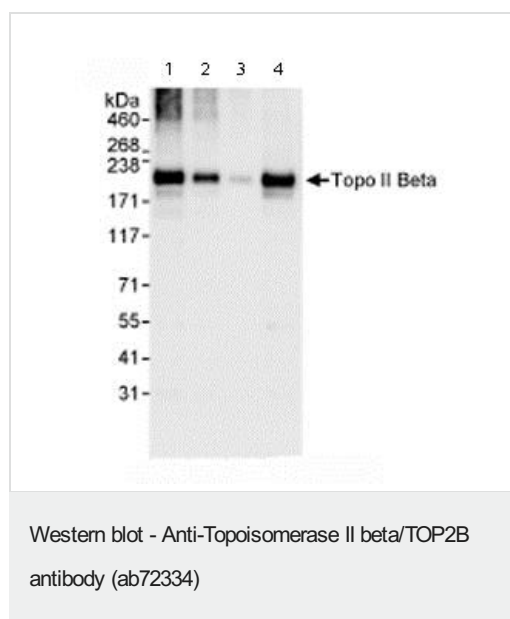
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Detects a band of approximately 210 kDa (predicted molecular weight: 183 kDa).
IP		Use at 2-5 µg/mg of lysate.
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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



All lanes : Anti-Topoisomerase II beta/TOP2B antibody (ab72334) at 0.04 µg/ml

Lane 1 : Whole cell lysate from Hela cells at 50 µg

Lane 2 : Whole cell lysate from Hela cells at 15 µg

Lane 3 : Whole cell lysate from Hela cells at 5 µg

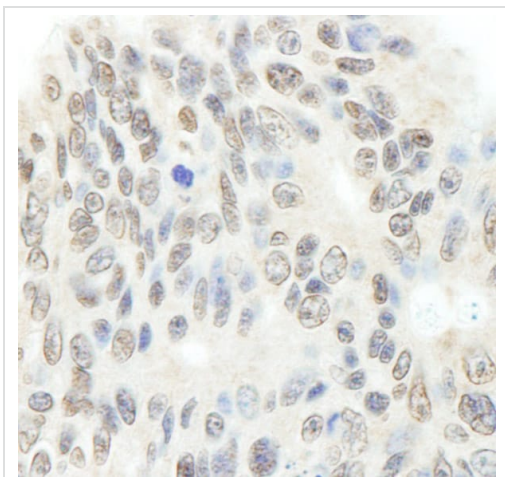
Lane 4 : Whole cell lysate from 293T cells at 50 µg

Developed using the ECL technique.

Predicted band size: 183 kDa

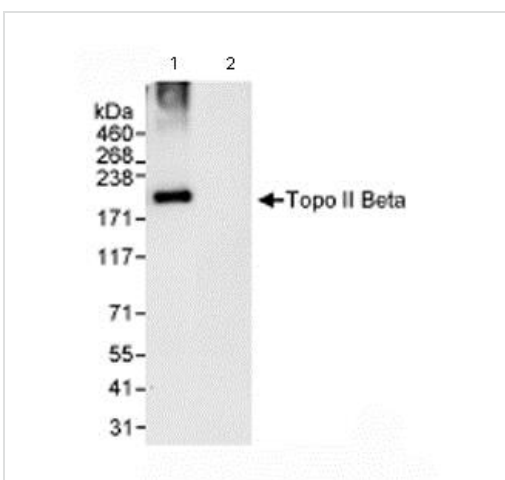
Observed band size: 210 kDa

Exposure time: 30 seconds



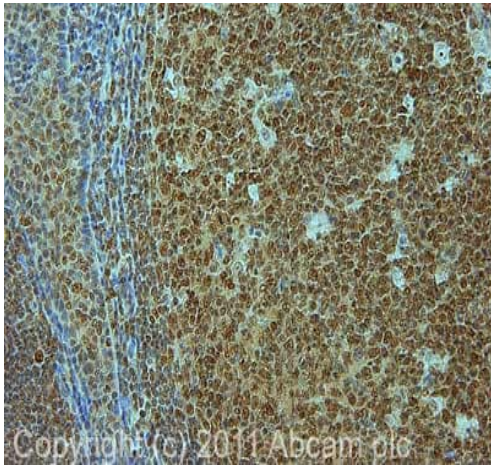
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Topoisomerase II beta/TOP2B antibody (ab72334)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human ovarian carcinoma tissue labelling Topoisomerase II beta/TOP2B with ab72334 at 1/200 (1µg/ml). Detection: DAB.



Immunoprecipitation - Anti-Topoisomerase II beta/TOP2B antibody (ab72334)

Immunoprecipitation/ Western Blot of Topoisomerase II beta/TOP2B. Lane 1: ab72334 at 3µg/mg whole cell lysate. Lane 2: Control IgG. ab72334 at 0.1µg/ml for WB. Whole cell lysate from Hela cells at 1mg for IP, 20% of IP loaded. Chemiluminescence with an exposure time of 30 seconds.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Topoisomerase II beta/TOP2B antibody (ab72334)

IHC image of ab72334 staining in human normal tonsil formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab72334, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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