

Novocastra™ Lyophilized Mouse Monoclonal Antibody Topoisomerase II Alpha

Product Code: NCL-TOPOIIA

Intended Use	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
Specificity	Human topoisomerase II alpha.
Clone	3F6
Ig Class	IgG1
Antigen Used for Immunizations	Prokaryotic recombinant protein corresponding to the C-terminal region of the topoisomerase II alpha molecule.
Hybridoma Partner	Mouse myeloma (p3-NS1-Ag4-1).
Preparation	Lyophilized tissue culture supernatant containing sodium azide. Reconstitute with the volume of sterile distilled water indicated on the vial label.
Effective on Frozen Tissue	Yes. Optimum fixation, Zamboni's, 10 minutes at 25 °C (See Stefanini et al.. 1967).
Effective on Paraffin Wax Embedded Tissue	Yes.
Recommendations on Use	Immunohistochemistry on paraffin sections. Heat Induced Epitope Retrieval (HIER): Please follow the instructions for use in Novocastra Epitope Retrieval Solution pH 6. Suggested dilution: 1:100 for 30 minutes at 25 °C. This is provided as a guide and users should determine their own optimal working dilutions. Visualization: Please follow the instructions for use in the Novolink™ Polymer Detection Systems. For further product information or support, contact your local distributor or regional office of Leica Biosystems, or alternatively, visit the Leica Biosystems web site, www.LeicaBiosystems.com <u>The performance of this antibody should be validated when utilized with other manual staining systems or automated platforms.</u>
Positive Controls	Immunohistochemistry: Tonsil. Western Blotting: RAJI cell line.
Staining Pattern	Nuclear.
Storage and Stability	Store unopened lyophilized antibody at 2-8 °C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. The reconstituted antibody is stable for at least two months when stored at 2-8 °C. For long term storage, it is recommended that aliquots of the antibody are frozen at -20 °C (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Prepare working dilutions on the day of use.
Warnings and Precautions	This reagent has been prepared from the supernatant of cell culture. As it is a biological product, reasonable care should be taken when handling it. This reagent contains sodium azide. A Material Safety Data Sheet is available upon request or available from www.LeicaBiosystems.com





B I O S Y S T E M S

General Overview

Topoisomerases are nuclear enzymes involved in a variety of cellular activities. Topoisomerase II Alpha modulates the topological structure of DNA during replication and transcription by introducing a transient double strand break, facilitating the passing through of a double stranded DNA helix, and then resealing the gap. Topoisomerase II Alpha expression and activity is linked to the cell cycle, and is associated with the proliferation status of cells.

General References

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