

# Monoclonal Antibody to Human Topo III $\alpha$



**Catalog No. 2015**



## **Description**

This monoclonal antibody was raised against purified recombinant protein and is specific for the C-terminal region (residues 748-976). The antibody is not suitable for use in Western blotting experiments. This reagent is well suited for immunohistochemistry with paraffin embedded tissue using 1:25 to 150 dilutions, the high temperature unmasking procedure and standard ABC techniques. It will work with frozen tissue although acetone fixation is recommended. We generally recommend 60 min incubation at 25°C for the primary antibody. Specific conditions used in each lab may vary as will specific applications for this AB. For this reason, the conditions for detecting nuclear and nucleolar localization should be worked out empirically in each laboratory.

IgG Class: IgG3

Staining Pattern: Nuclear and nucleolar

## **TopoIII $\alpha$ Background Information**

DNA topo III is a type IA topoisomerase that is similar to the prokaryotic (*E. coli*) topo I (omega protein). The reaction mechanisms for these two are similar. The prototypic topo I in animal cells is a type IB enzyme. Topo III has been localized to chromosome 17 (17p11.2-12) and encodes a 976 residue, 110 kDa polypeptide. The biochemical features of this enzyme are not well understood although it is likely that it behaves similarly to the prokaryotic homologue (omega protein) in its strong preference for negatively supercoiled DNA substrates.

## **Vial contents:**

Purified antibody (50 ul) is supplied in sterile water.

## **Shipping/Storage Conditions**

The antibody is shipped on dry ice and should be stored at -20°C. We also recommend that the reagent be divided into smaller aliquots upon the first thaw. Avoid repeat freezing/thawing cycles.

## **Product Application and Disclaimer**

This product is not licensed or approved for administration to humans or animals. It may be used with experimental animals only. The product is for in vitro research diagnostic studies only. The product is non-infectious and non-hazardous to human health. This information is based on present knowledge and does not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. TopoGEN, Inc. shall not be held liable for product failure due to mishandling and incorrect storage by end user. TopoGEN's liability is limited to credit or product replacement.

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**For Technical Questions: 614-451-5810**

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