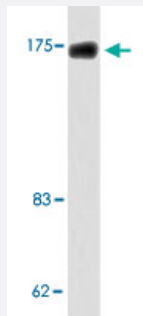


# TOP2A polyclonal antibody

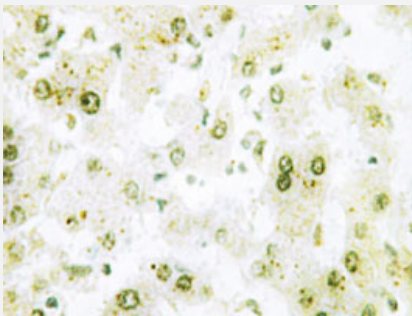
Catalog # PAB25095      Size 100 uL

## Applications



### Western Blot (Cell lysate)

Western blot analysis of HT-29 cell lysate with TOP2A polyclonal antibody (Cat # PAB25095).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human liver carcinoma tissue using TOP2A polyclonal antibody (Cat # PAB25095).

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of TOP2A.
<b>Immunogen</b>	A synthetic peptide corresponding to TOP2A.
<b>Host</b>	Rabbit
<b>Theoretical MW (kDa)</b>	174
<b>Reactivity</b>	Human
<b>Specificity</b>	TOP2A polyclonal antibody detects endogenous levels of TOP2A protein.
<b>Form</b>	Liquid

<b>Purification</b>	Affinity purification
<b>Concentration</b>	1 mg/mL
<b>Recommend Usage</b>	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS, pH 7.2 (0.05% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

Western blot analysis of HT-29 cell lysate with TOP2A polyclonal antibody (Cat # PAB25095).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human liver carcinoma tissue using TOP2A polyclonal antibody (Cat # PAB25095).

- Immunofluorescence

## Gene Info — TOP2A

<b>Entrez GeneID</b>	<a href="#">7153</a>
<b>Gene Name</b>	TOP2A
<b>Gene Alias</b>	TOP2, TP2A
<b>Gene Description</b>	topoisomerase (DNA) II alpha 170kDa
<b>Omim ID</b>	<a href="#">126430</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>

**Gene Summary**

This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic state of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and replication. It catalyzes the transient breaking and rejoining of two strands of duplex DNA which allows the strands to pass through one another, thus altering the topology of DNA. Two forms of this enzyme exist as likely products of a gene duplication event. The gene encoding this form, alpha, is localized to chromosome 17 and the beta gene is localized to chromosome 3. The gene encoding this enzyme functions as the target for several anticancer agents and a variety of mutations in this gene have been associated with the development of drug resistance. Reduced activity of this enzyme may also play a role in ataxia-telangiectasia. [provided by RefSeq]

**Other Designations**

DNA topoisomerase II, 170 kD|DNA topoisomerase II, alpha isozyme|topoisomerase (DNA) II alpha (170kD)

**Disease**

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Leukemia](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Recurrence](#)
- [Stomach Neoplasms](#)