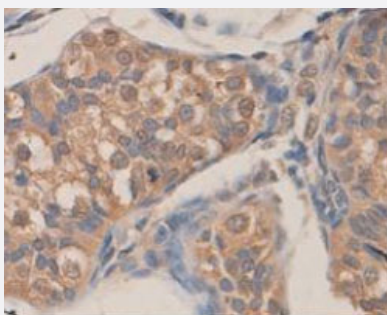


# TOP2B polyclonal antibody

Catalog # PAB18910      Size 100 ug

## Applications



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

Immunohistochemical staining of formalin-fixed paraffin-embedded human breast carcinoma tissue showing cytoplasmic staining with TOP2B polyclonal antibody (Cat # PAB18910) at 1 : 100 dilution.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of TOP2B.
<b>Immunogen</b>	A synthetic peptide corresponding to 15 amino acids at C-terminus of human TOP2B.
<b>Sequence</b>	CSGSENEGDYNPGRK
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Recommend Usage</b>	ELISA (1:1000-1:10000) Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In buffer containing 0.02% sodium azide
<b>Storage Instruction</b>	Store at 4°C for three months. 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

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

Immunohistochemical staining of formalin-fixed paraffin-embedded human breast carcinoma tissue showing cytoplasmic staining with TOP2B polyclonal antibody (Cat # PAB18910) at 1 : 100 dilution.

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — TOP2B

Entrez GeneID [7155](#)

Protein Accession# [NM\\_001068](#)

Gene Name TOP2B

Gene Alias TOP1IB, top2beta

Gene Description topoisomerase (DNA) II beta 180kDa

Omim ID [126431](#)

Gene Ontology [Hyperlink](#)

**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, beta, is localized to chromosome 3 and the alpha form is localized to chromosome 17. 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. Alternative splicing of this gene results in two transcript variants; however, the second variant has not yet been fully described. [provided by RefSeq]

**Other Designations**

DNA topoisomerase II beta|DNA topoisomerase II, 180 kD|DNA topoisomerase II, beta isozyme|U937 associated antigen|antigen MLAA-44|topo II beta|topoisomerase (DNA) II beta (180kD)|topoisomerase II beta|topoisomerase IIb

## Disease

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- [Edema](#)