

# Topoisomerase II $\alpha$ Rabbit pAb

CatalogNo: YT4701

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Monkey

### Applications

- WB, IHC, IF, ELISA

### MW

- 174kD (Observed)

### Isotype

- IgG

## Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

## Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**IF 1:200-1:1000**

**ELISA 1:20000**

**Not yet tested in other applications.**

## Basic Information

**Clonality** Polyclonal

## Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human TOP2A. AA range:1-50

**Specificity** Topo II $\alpha$  Polyclonal Antibody detects endogenous levels of Topo II $\alpha$  protein.

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## | Target Information

**Gene name** TOP2A TOP2

**Protein Name** DNA topoisomerase 2-alpha

Organism	Gene ID	UniProt ID
Human	<a href="#">7153</a> ;	<a href="#">P11388</a> ;
Mouse	<a href="#">21973</a> ;	<a href="#">Q01320</a> ;
Rat	<a href="#">360243</a> ;	<a href="#">P41516</a> ;

**Cellular Localization** Cytoplasm . Nucleus, nucleoplasm . Nucleus . Nucleus, nucleolus .

**Tissue specificity** Expressed in the tonsil, spleen, lymph node, thymus, skin, pancreas, testis, colon, kidney, liver, brain and lung (PubMed:9155056). Also found in high-grade lymphomas, squamous cell lung tumors and seminomas (PubMed:9155056).

**Function** Catalytic activity:ATP-dependent breakage, passage and rejoining of double-stranded DNA.,enzyme regulation:Specifically inhibited by the intercalating agent amsacrine.,Function:Control of topological states of DNA by transient breakage and subsequent rejoining of DNA strands. Topoisomerase II makes double-strand breaks.,miscellaneous:Eukaryotic topoisomerase I and II can relax both negative and positive supercoils, whereas prokaryotic enzymes relax only negative supercoils.,PTM:Phosphorylation has no effect on catalytic activity.,similarity:Belongs to the type II topoisomerase family.,subcellular location:Generally located in the nucleoplasm.,subunit:Homodimer. Interacts with COPS5.,

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## | Validation Data

### | Contact information

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Please scan the QR code to access additional product information:  
**Topoisomerase II $\alpha$**   
**Rabbit pAb**