

# Topoisomerase II $\alpha$ (Phospho Ser1525) Rabbit pAb

CatalogNo: YP0836

Orthogonal Validated 

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB, IHC, IF, ELISA

### MW

- 190kD (Observed)

### Isotype

- IgG

## Recommended Dilution Ratios

**WB 1:500-1:2000****IHC 1:100-1:300****ELISA 1:5000****IF 1:50-200**

## 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.

## Basic Information

**Clonality** Polyclonal

## Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human TOP2A around the phosphorylation site of Ser1525. AA range: 1482-1531

**Specificity** Phospho-Topo IIα (S1525) Polyclonal Antibody detects endogenous levels of Topo IIα protein only when phosphorylated at S1525. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):LEESD

## | Target Information

**Gene name** TOP2A TOP2

**Protein Name** DNA topoisomerase 2-alpha

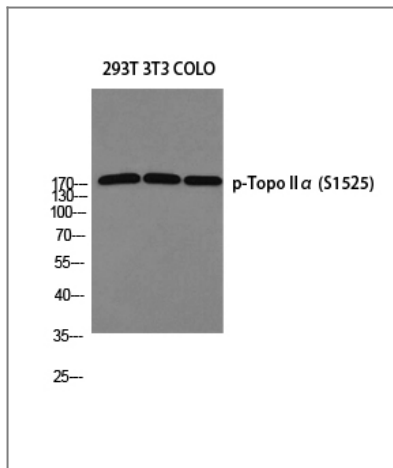
Organism	Gene ID	UniProt ID
Human	<a href="#">7153</a> ;	<a href="#">P11388</a> ;
Mouse	<a href="#">21973</a> ;	<a href="#">Q01320</a> ;
Rat	<a href="#">360243</a> ;	<a href="#">P41516</a> ;

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

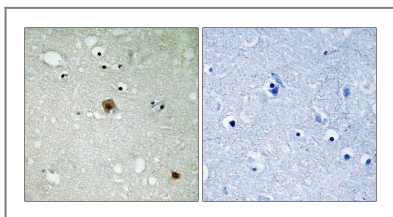
**Tissue specificity** Expressed in the tonsil, spleen, lymph node, thymus, skin, pancreas, testis, colon, kidney, liver, brain and lung (PubMed:9155056). Also found in high-grade lymphomas, squamous cell lung tumors and seminomas (PubMed:9155056).

**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.,

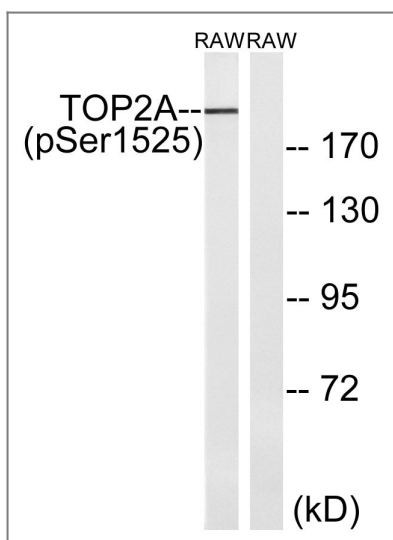
## | Validation Data



Western blot analysis of 293T 3T3 COLO using p-Topo II $\alpha$  (S1525) antibody. Antibody was diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human brain, using TOP2A (Phospho-Ser1525) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from RAW264.7 cells treated with TNF 20ng/ml 5', using TOP2A (Phospho-Ser1525) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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**Topoisomerase II $\alpha$**   
**(Phospho Ser1525)**  
**Rabbit pAb**