



## Rabbit Anti-TOP2A antibody

SL1920R

<b>Product Name:</b>	TOP2A
<b>Chinese Name:</b>	DNA拓普西异构酶 II A抗体
<b>Alias:</b>	DNA topoisomerase II alpha; TOPO II; DNA topoisomerase 2-alpha; DNA topoisomerase II, alpha isozyme; TOP2; TP2A; DNA topoisomerase II 170 kD; DNA topoisomerase II alpha isozyme; DNA Topoisomerase2; TOP 2A; TopII alpha; Topo II alpha; Topoisomerase DNA II alpha 170kDa; Topoisomerase II alpha 170 kDa; TOP2A HUMAN; Topo II $\alpha$ ; Topo-II $\alpha$ ; Topoisomerase II- $\alpha$ .
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	174kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human TOP2 alpha:551-650/1531
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states 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, Jul 2010].

**Function:**

Control of topological states of DNA by transient breakage and subsequent rejoining of DNA strands. Topoisomerase II makes double-strand breaks.

**Subunit:**

Homodimer. Interacts with COPS5.

**Subcellular Location:**

Cytoplasm. Nucleus, nucleoplasm. Note=Generally located in the nucleoplasm.

**Post-translational modifications:**

Phosphorylation has no effect on catalytic activity. However, phosphorylation at Ser-1106 by CSNK1D/CK1 promotes DNA cleavable complex formation.

**Similarity:**

Belongs to the type II topoisomerase family.

**SWISS:**

P11388

**Gene ID:**

7153

**Database links:**

[Entrez Gene: 7153](#)Human

[Entrez Gene: 21973](#)Mouse

[Entrez Gene: 360243](#)Rat

[Omim: 126430](#)Human

[SwissProt: P11388](#)Human

[SwissProt: Q01320](#)Mouse

[SwissProt: P41516](#)Rat

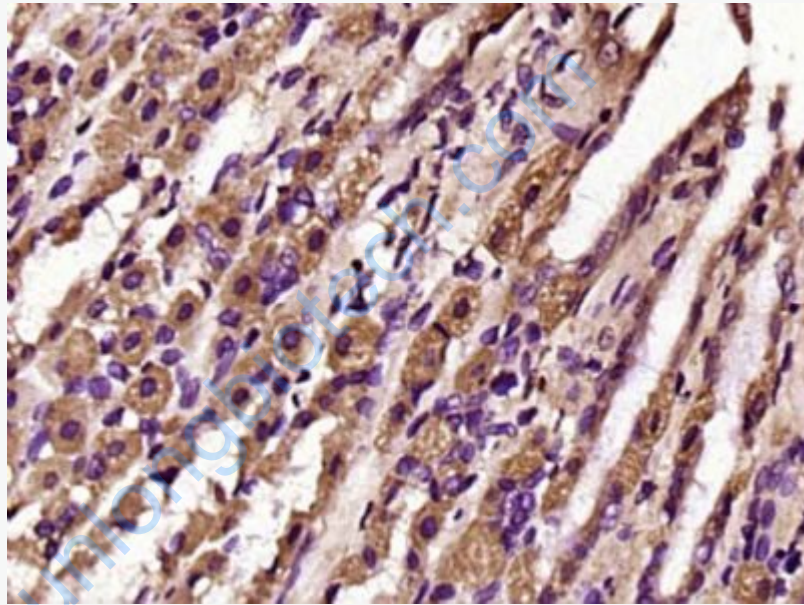
[Unigene: 156346](#)Human

[Unigene: 4237](#)Mouse

[Unigene: 90996](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (Rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TOP2A) Polyclonal Antibody, Unconjugated (SL1920R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.