

**Topo II $\alpha$  Polyclonal Antibody**  
Catalog # AP72884**Specification**

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**Topo II $\alpha$  Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P11388</a>
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal

**Topo II $\alpha$  Polyclonal Antibody - Additional Information****Gene ID** 7153**Other Names**

TOP2A; TOP2; DNA topoisomerase 2-alpha; DNA topoisomerase II; alpha isozyme

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Topo II $\alpha$  Polyclonal Antibody - Protein Information****Name** TOP2A**Synonyms** TOP2**Function**

Key decatenating enzyme that alters DNA topology by binding to two double-stranded DNA molecules, generating a double-stranded break in one of the strands, passing the intact strand through the broken strand, and religating the broken strand (PubMed:<a href="http://www.uniprot.org/citations/17567603" target="\_blank">17567603</a>, PubMed:<a href="http://www.uniprot.org/citations/18790802" target="\_blank">18790802</a>, PubMed:<a href="http://www.uniprot.org/citations/22013166" target="\_blank">22013166</a>, PubMed:<a href="http://www.uniprot.org/citations/22323612" target="\_blank">22323612</a>). May play a role in regulating the period length of BMAL1 transcriptional oscillation (By similarity).

**Cellular Location**

Cytoplasm. Nucleus, nucleoplasm. Nucleus. Nucleus, nucleolus

**Tissue Location**

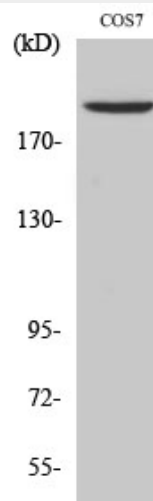
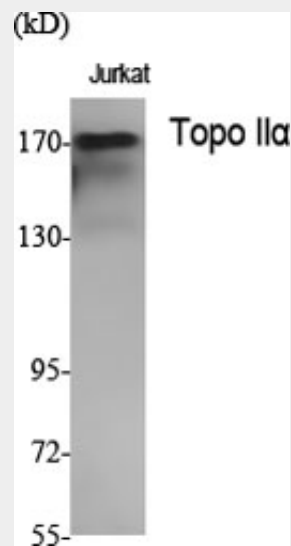
Expressed in the tonsil, spleen, lymph node, thymus, skin, pancreas, testis, colon, kidney, liver, brain and lung (PubMed:9155056). Also found in high-grade lymphomas, squamous cell lung tumors and seminomas (PubMed:9155056)

### Topo II $\alpha$ Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Topo II $\alpha$ Polyclonal Antibody - Images



## **Topo II $\alpha$ Polyclonal Antibody - Background**

Control of topological states of DNA by transient breakage and subsequent rejoining of DNA strands. Topoisomerase II makes double-strand breaks. Essential during mitosis and meiosis for proper segregation of daughter chromosomes. May play a role in regulating the period length of ARNTL/BMAL1 transcriptional oscillation (By similarity).