

Topo IIα Polyclonal Antibody

Catalog # AP73232

Specification

Topo IIα Polyclonal Antibody - Product Information

Application WB, IHC-P Primary Accession P11388

Reactivity Human, Mouse

Host Rabbit Clonality Polyclonal

Topo IIα 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. ELISA: 1/5000. Not yet tested in other applications.

IHC-P~~N/A

Format

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

Storage Conditions

-20°C

Topo IIα 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

 $href="http://www.uniprot.org/citations/17567603" target="_blank">17567603, PubMed:18790802, PubMed:22013166, PubMed:22013166, PubMed:22323612). May play a role in regulating the period length of BMAL1 transcriptional oscillation (By similarity).$

Cellular Location

Cytoplasm. Nucleus, nucleoplasm. Nucleus. Nucleus, nucleolus

Tissue Location



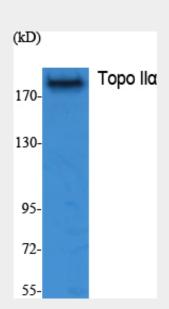
Expressed in the tonsil, spleen, lymph node, thymus, skin, pancreas, testis, colon, kidney, liver, brain and lung (PubMed:9155056). Also found in high-grade lymphomas, squamous cell lung tumors and seminomas (PubMed:9155056)

Topo IIα Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Topo IIα Polyclonal Antibody - Images



Western Blot analysis of extracts from K562 cells, using Topo II α Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

Topo IIα 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).