

Topo IIα Polyclonal Antibody

Catalog # AP73232

Product Information

ApplicationWB, IHC-PPrimary AccessionP11388

Reactivity Human, Mouse

HostRabbitClonalityPolyclonalCalculated MW174385

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

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:17567603, PubMed:18790802, 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,

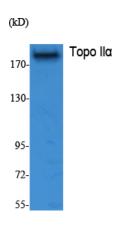
colon, kidney, liver, brain and lung (PubMed:9155056). Also found in high-grade lymphomas, squamous cell lung tumors and seminomas

(PubMed:9155056)

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).

Images



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

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