



Topo IIα (phospho Ser1525) rabbit pAb

Cat#: orb770290 (Manual)

For research use only. Not intended for diagnostic use.

Product NameTopo IIα (phospho Ser1525) rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA

Species Cross-Reactivity Human; Mouse; Rat

Recommended dilutions Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA:

1/5000. Not yet tested in other applications.

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.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium

azide..

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name DNA topoisomerase 2-alpha

Gene Name TOP2A

Cellular localization Cytoplasm . Nucleus, nucleoplasm . Nucleus . Nucleus, nucleolus .

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Clonality Polyclonal





Concentration 1 mg/ml

Observed band 190kD

Human Gene ID 7153

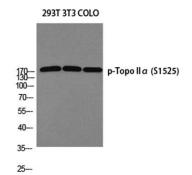
Human Swiss-Prot Number P11388

Alternative Names TOP2A; TOP2; DNA topoisomerase 2-alpha; DNA topoisomerase II;

alpha isozyme

Background

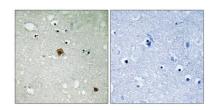
This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and replication. 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 pla



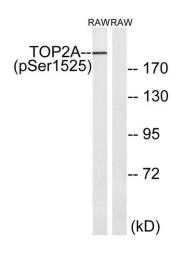
Western blot analysis of 293T 3T3 COLO using p-Topo II α (S1525) antibody. Antibody was diluted at 1:1000







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



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.