

Topo IIα (phospho Ser1525) Polyclonal Antibody

Catalog No: YP0836

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: Topo Ila

Fields: >>Platinum drug resistance

Gene Name: TOP2A

Protein Name: DNA topoisomerase 2-alpha

P11388

Q01320

Human Gene Id: 7153

Human Swiss Prot

uman Swiss Frot

No:

Mouse Gene Id: 21973

Mouse Swiss Prot

No:

Rat Gene Id: 360243

Rat Swiss Prot No: P41516

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 IIa (S1525) Polyclonal Antibody detects endogenous levels of

Topo IIa protein only when phosphorylated at S1525.

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

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200

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

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 190kD

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

Function: catalytic activity:ATP-dependent breakage, passage and rejoining of double-

stranded DNA.,enzyme regulation:Specifically inhibited by the intercalating agent amsacrine.,function:Control of topological states of DNA by transient breakage and subsequent rejoining of DNA strands. Topoisomerase II makes double-strand breaks.,miscellaneous:Eukaryotic topoisomerase I and II can relax both negative and positive supercoils, whereas prokaryotic enzymes relax only negative

supercoils..PTM:Phosphorylation has no effect on catalytic

activity., similarity: Belongs to the type II topoisomerase family., subcellular

location:Generally located in the nucleoplasm.,subunit:Homodimer. Interacts with

COPS5.,

Subcellular Location:

Cytoplasm . Nucleus, nucleoplasm . Nucleus . Nucleus, nucleolus .

Expression: 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).

-y--p-io-mae, equal-news containing tarriers and commonate (reasonable research).

Tag: orthogonal,hot

Sort : 17280

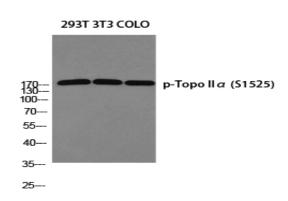
No4: 1

Host: Rabbit

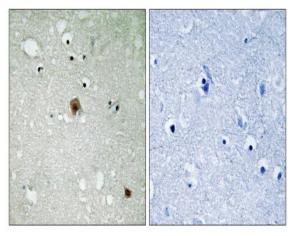
Modifications:

Phospho

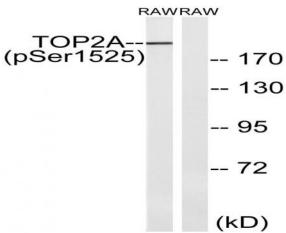
Products Images



Western blot analysis of 293T 3T3 COLO using p-Topo IIa (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.