

Topoisomerase II α (Phospho Ser1469) rabbit pAb

Catalog No :	YP1533
Reactivity :	Human;Rat;Mouse;
Applications :	WB
Target :	Topo II α
Fields :	>>Platinum drug resistance
Gene Name :	TOP2A TOP2
Protein Name :	Topoisomerase II α (Ser1469)
Human Gene Id :	7153
Human Swiss Prot No :	P11388
Mouse Gene Id :	21973
Mouse Swiss Prot No :	Q01320
Rat Gene Id :	360243
Rat Swiss Prot No :	P41516
Immunogen :	Synthesized phospho peptide around human Topoisomerase II α (Ser1469)
Specificity :	This antibody detects endogenous levels of Human Topoisomerase II α (phospho-Ser1469)
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:1000-2000

Purification : The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.

Concentration : 1 mg/ml

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

Observed Band : 174kD

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).

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