Best Tools for immunology Research

TOP2A (Phospho Ser1213) rabbit pAb

Catalog No :	YP1583
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	TOP2A
Fields :	>>Platinum drug resistance
Gene Name :	TOP2A TOP2
Protein Name :	TOP2A (Phospho Ser1213)
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 peptide derived from human TOP2A (Phospho Ser1213)
Specificity :	This antibody detects endogenous levels of Human TOP2A (Phospho Ser1213)
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:1000-2000 ELISA 1:5000-20000
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 : 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.,

Function : DNA metabolic process, DNA replication, DNA topological change, DNA ligation, DNA repair, DNA packaging, apoptosis,response to DNA damage stimulus, nucleus organization, chromosome segregation, intracellular signaling cascade, cell death, regulation of cell death, positive regulation of cell death, programmed cell death, death, second-messenger-mediated signaling, chromosome condensation, apoptotic nuclear changes, apoptotic chromosome condensation,cellular response to stress, regulation of apoptosis, positive regulation of apoptosis, regulation of programmed cell death, positive regulation of programmed cell death, regulation of viral genome replication, positive regulation of viral genome replication, regulation of retroviral genome replication, positive regulation of retroviral genome replication,phosphoinositide-mediated signaling, positive regulation of viral reproduction, regulatio

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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