ELK Biotechnology

Topo IIα (phospho Thr1343) rabbit pAb

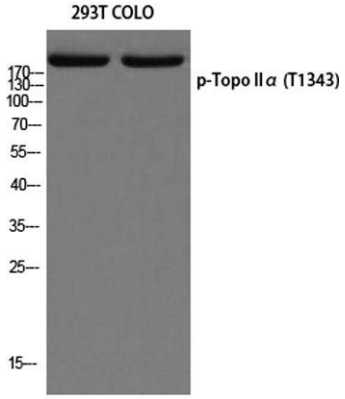
Cat No.:ES7413

For research use only

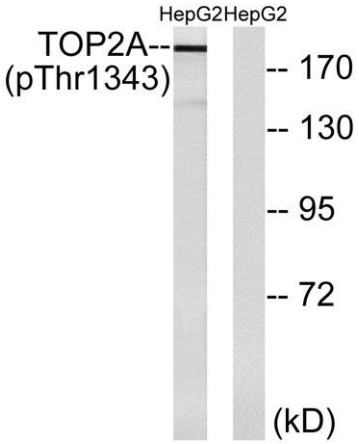
Overview

Product Name	Topo IIα (phospho Thr1343) rabbit pAb
Host species	Rabbit
Applications	WB;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. 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 Thr1343. AA range:1311-1360
Specificity	Phospho-Topo IIα (T1343) Polyclonal Antibody detects endogenous levels of Topo IIα protein only when phosphorylated at T1343.
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 COLO using p-Topo IIα (T1343) antibody. Antibody was diluted at 1:2000



Western blot analysis of lysates from HepG2 cells treated with Ca2+ 40nM 30', using TOP2A (Phospho-Thr1343) Antibody. The lane on the right is blocked with the phospho peptide.

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