

Topo II alpha(Phospho Thr1343) Polyclonal Antibody

Description

Product type Primary Antibody

Code BT-AP15070

Host Rabbit

Isotype IgG

Size 20ul, 50ul, 100ul

Immunogen The antiserum was produced against synthesized peptide derived from human TOP2A around the

phosphorylation site of Thr1343. AA range:1311-1360

Mol wt 174385

Species reactivity Human, Rat, Mouse

Clonality Polyclonal

Recommended application WB, ELISA

Concentration 1 mg/ml

Full name DNA topoisomerase 2-alpha

Synonyms DNA topoisomerase 2-alpha; TOP2A; TOP2, DNA topoisomerase 2-alpha; DNA topoisomerase II; alpha

isozyme

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

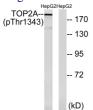
This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and replication.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

Recommended Dilution

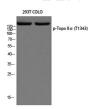
WB: 1: 500 - 1: 2000 ELISA: 1: 5000

Not yet tested in other applications.

Images



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

Storage

-20°C for 1 year

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