BT LAB
Bioassay Technology Laboratory
Optimize Your Research

Topo II Alpha Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP09132
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	Synthesized peptide derived from Topo IIα . at AA range: 1160-1240
Mol wt	174385
Species reactivity	Human, Mouse
Clonality	Polyclonal
Recommended application	WB, IHC-p, ELISA
Concentration	1 mg/ml
Full name	Topo IIalpha Antibody
Synonyms	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

TOP2A (topoisomerase (DNA) II alpha) 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. TOP2A 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 play a role in ataxia-telangiectasia.

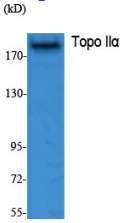
Recommended Dilution

WB: 1: 500 - 1: 2000

ELISA: 1: 5000

Not yet tested in other applications.

Images



Western Blot analysis of extracts from K562 cells, using Topo IIα Polyclonal Antibody. Secondary antibody was diluted at 1:20000

Storage

-20°C for one year

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