

Datasheet for ABIN7270853

anti-Topoisomerase II alpha antibody (AA 1050-1150)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µL
Target:	Topoisomerase II alpha (TOP2A)
Binding Specificity:	AA 1050-1150
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Topoisomerase II alpha antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	DNA topoisomerase II alpha (TOP2A) Rabbit pAb
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 1050-1150 of human DNA topoisomerase II alpha (DNA topoisomerase II alpha (TOP2A)) (NP_001058.2).
Sequence:	NQARFILEKI DGKIIENKP KKELIKVLIQ RGYSDPVKA WKEAQQKVPD EEENEESDNE KETEKSDSVT DSGPTFNYLL DMPLWYLTKE KKDELCLRLN E
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Topoisomerase II alpha (TOP2A)
Alternative Name:	TOP2A (TOP2A Products)
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 play a role in ataxia-telangiectasia.,TOP2A,TOP2,TP2A,Epigenetics & Nuclear Signaling,Cancer,Drug resistance,Topoisomerases,Cell Biology & Developmental Biology,Apoptosis,Cell Cycle,Centrosome,G2/M DNA Damage Checkpoint,TOP2A
Molecular Weight:	174kDa/177kDa/178kDa/182kDa
Gene ID:	7153
UniProt:	P11388
Pathways:	Cell Division Cycle , Mitotic G1-G1/S Phases

Application Details

Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

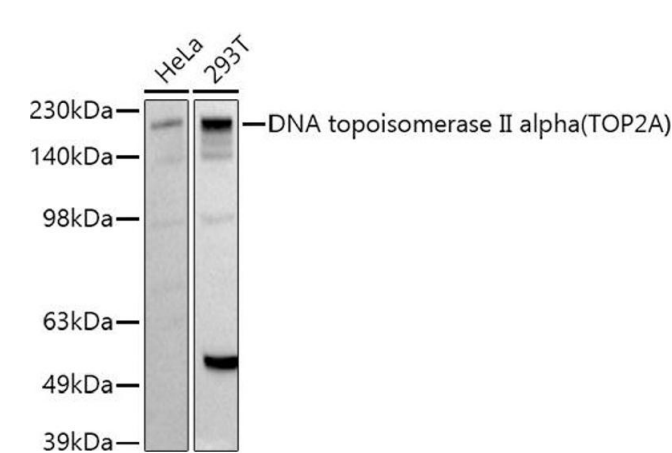
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Handling

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using DNA topoisomerase II alpha (TOP2A) antibody (ABIN7270853) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.