

Datasheet for ABIN1109282

anti-Topoisomerase II alpha antibody (N-Term)[Go to Product page](#)**1** Image

Overview

Quantity:	0.1 mg
Target:	Topoisomerase II alpha (TOP2A)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Topoisomerase II alpha antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant N-terminal Topoisomerase II fusion protein
Clone:	AK5
Isotype:	IgG1
Specificity:	This antibody reacts with Topo II α and β . The antibody detects 170 KD of human Topo II α and 180 KD of human Topo II β on Western blot with whole cell lysate.
Cross-Reactivity (Details):	Species reactivity (tested): Human (Jurkat, Raji), Mouse (NIH3T3, P19, WR19L), Rat (PC12)
Purification:	Protein-A Sepharose

Target Details

Target:	Topoisomerase II alpha (TOP2A)
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Target Details

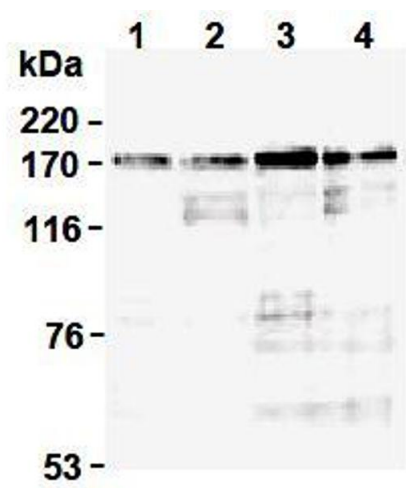
Alternative Name:	TOP2A (TOP2A Products)
Background:	Eukaryotic DNA Topoisomerase II is a ubiquitous ATP-dependent type II Topoisomerase that play an important role in DNA replication, transcription and recombination by changing the degree of superhelicity, catenation and knotting of topologically closed DNA molecules. Two isoforms of DNA Topoisomerases II have been reported in mammalian cells, Topoisomerase IIα and IIβ. cDNA sequence of those isoforms reveals that both type II Topoisomerases are structurally and catalytically close. However, Topoisomerase IIβ is expressed with no cell cycle dependence, whereas the expression of Topoisomerase IIα is cell cycle-regulated, peaking in G2-M phase and declining to a minimal level at the end of M phase. Topoisomerase IIα is poly-ubiquitinated and degraded preferentially in the apoptosis-induced human epithermoid carcinoma-derived cell line, MA1, in an ATP-and-ubiquitin-dependent manner. Recent studies also indicated that this isoform is selectively cleaved during Fas-mediated T cell apoptosis and Fas-, Staurosporine- and Anisomycin-mediated Jurkat cell apoptosis. Synonyms: DNA topoisomerase 2-alpha, DNA topoisomerase 2-beta, DNA topoisomerase II alpha isozyme, DNA topoisomerase II beta isozyme, TOP2, Top-2
Gene ID:	7153
NCBI Accession:	NP_001058
UniProt:	P11388
Pathways:	Cell Division Cycle, Mitotic G1-G1/S Phases

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	PBS containing 50 % glycerol, pH 7.2, without preservatives
Preservative:	Without preservative
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store (in aliquots) at -20 °C.



Western Blotting

Image 1.