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anti-Topoisomerase II alpha antibody (C-Term)

Images



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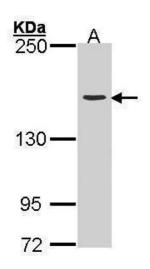
Overview	
Quantity:	100 μL
Target:	Topoisomerase II alpha (TOP2A)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Topoisomerase II alpha antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus
	region of human Topoisomerase II alpha. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Rabbit polyclonal antibody to Topoisomerase II alpha (topoisomerase (DNA) II alpha 170 kDa)
	Topoisomerase II alpha antibody [C3], C-term
Purification:	Purified by antigen-affinity chromatography.
Target Details	
Target:	Topoisomerase II alpha (TOP2A)

Target Details

Alternative Name:	DNA topoisomerase II alpha (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 chromsome 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.
	Cellular Localization: Cytoplasm , Nucleus , nucleoplasm
Molecular Weight:	174 kDa
Gene ID:	7153
UniProt:	P11388
Pathways:	Cell Division Cycle, Mitotic G1-G1/S Phases
Application Details	
Application Notes:	WB: 1:500-1:3000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined
	by the researcher. Not tested in other applications.
Comment:	Positive Control: H1299
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)

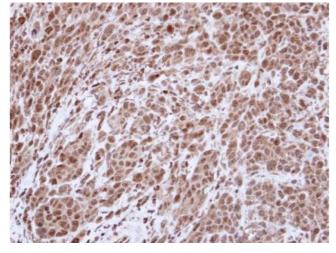
	which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid
	multiple freeze-thaw cycles.

Validation report #104339 for Multiplex Immunohistochemistry (mIHC)



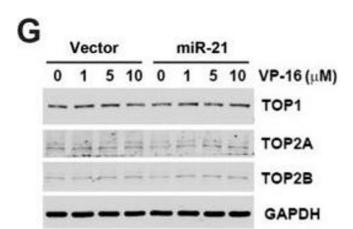
Western Blotting

Image 1. WB Image Sample (30 ug of whole cell lysate) A: H1299 5% SDS PAGE antibody diluted at 1:3000



Immunohistochemistry

Image 2. IHC-P Image Immunohistochemical analysis of paraffin-embedded SAS Xenograft , using Topoisomerase II alpha , antibody at 1:500 dilution.



Western Blotting

Image 3. Effect of miR-21 overexpression chemosensitivity. (A) mRNA expression of miR-21 and programmed cell death 4 (PDCD4) in corresponding vectoroverexpressing DLD-1 (DLD-1-vector) and overexpressing DLD-1 (DLD-1-miR-21) cells were analyzed by qPCR. (B) Protein expressions of PDCD4 in DLD-1-vector and DLD-1-miR-21 cells were analyzed by Western blot analysis. (C) Growth rates of DLD-1-vector and DLD-1-miR-21 cells were measured by cell counts at approximately 1 to 4 days. p < 0.05 (*) indicates significant differences between DLD-1-miR-21 and DLD-1-vector cells. (D) Cell morphology was observed under bright-field microscopy. (E) DLD-1vector and DLD-1-miR-21 cells were treated with various doses of 5-fluorouracil (5-FU), SN-38, doxorubicin, and VP-16 for 72 h. Cell viability was analyzed by an 3-(4,5dimethylthiazol-2-yl)-2,5-diphenyl tetrazolium bromide (MTT) assay. p < 0.05 (*), p < 0.01 (**), or p < 0.001 (***) indicates significant differences between DLD-1-miR-21 and DLD-1-vector cells. n.d., not determined. (F) DLD-1-vector and DLD-1-miR-21 cells were treated with various doses of VP-16 for 48 h. Whole-cell lysates were prepared and subjected to a Western blot analysis. (G) DLD-1-vector and DLD-1-miR-21 cells were treated with various doses of VP-16 for 24 h. Whole-cell lysates were prepared and subjected to a Western blot analysis. (H) DLD-1-vector and DLD-1-miR-21 cells were treated with various doses of VP-16 for 1 h. A band-depletion assay was performed as described in ""Materials and Methods"". - figure provided by CiteAb. Source: PMID31505885