

Anti-Topoisomerase 2 alpha Antibody

Catalog # AP96088

Product Information

Application	WB, FC, IF/IC
Primary Accession	P11388
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	174385

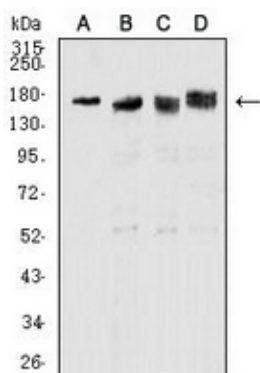
Additional Information

Gene ID	7153
Other Names	TOP2; DNA topoisomerase 2-alpha; DNA topoisomerase II, alpha isozyme
Target/Specificity	Recombinant fusion protein of human Topoisomerase 2 alpha expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG2b. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

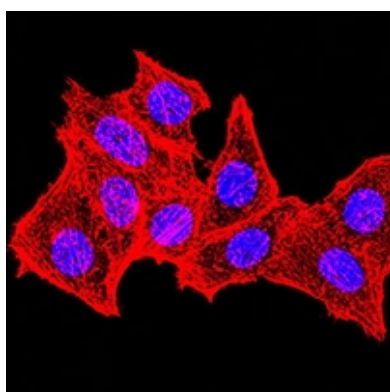
Protein Information

Name	TOP2A
Synonyms	TOP2
Function	Key decatenating enzyme that alters DNA topology by binding to two double-stranded DNA molecules, generating a double-stranded break in one of the strands, passing the intact strand through the broken strand, and religating the broken strand (PubMed: 17567603 , PubMed: 18790802 , PubMed: 22013166 , PubMed: 22323612 , PubMed: 27754753). May play a role in regulating the period length of BMAL1 transcriptional oscillation (By similarity).
Cellular Location	Cytoplasm. Nucleus, nucleoplasm. Nucleus. Nucleus, nucleolus
Tissue Location	Expressed in the tonsil, spleen, lymph node, thymus, skin, pancreas, testis, colon, kidney, liver, brain and lung (PubMed:9155056). Also found in high-grade lymphomas, squamous cell lung tumors and seminomas (PubMed:9155056)

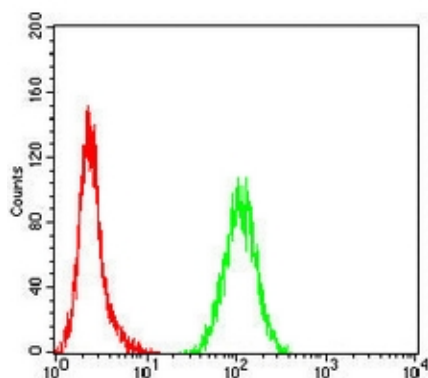
Images



Western blot analysis of Topoisomerase 2 alpha expression in PC12 (A), HeLa (B), Jurkat (C), K562 (D) whole cell lysates. (Predicted band size: 174 kD; Observed band size: 174 kD)



Immunofluorescent analysis of Topoisomerase 2 alpha staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of HeLa cells using Anti-Topoisomerase 2 alpha Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.