

Product Name: KD-Validated TOP2A Rabbit Polyclonal Antibody**Catalog #: KVA00466**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit pAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500
Molecular Weight	Calculated MW: 174.4kDa

Antigen Information

Gene Name	TOP2A
Alternative Names	TOP2A; DNA Topoisomerase II Alpha; TOP2alpha; TOP2A; TOP2; Topoisomerase (DNA) II Alpha 170kDa; DNA Topoisomerase II, Alpha Isozyme; DNA Topoisomerase 2-Alpha; DNA Topoisomerase (ATP-Hydrolyzing); DNA Topoisomerase II, 170 KD; EC 5.99.1.3; DNA Gyrase; EC 5.6.2.2; TP2A
Gene ID	7153.0
SwissProt ID	P11388
Immunogen	A synthesized peptide derived from human Topoisomerase 2 alpha

Background

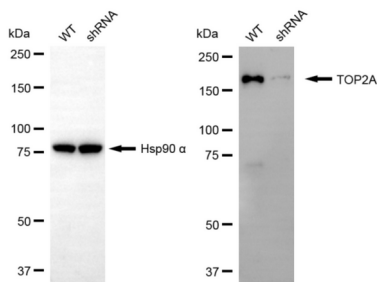
This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription.

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. [provided by RefSeq, Jul 2010]

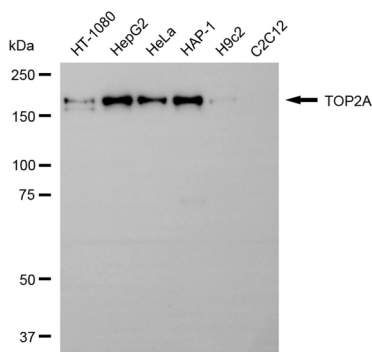
Research Area

Epigenetics and Nuclear Signaling,Cancer

Image Data



Western blotting analysis using TOP2A antibody (KVA00466). TOP2A expression in wild-type (WT) and TOP2A shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with TOP2A antibody (KVA00466, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using TOP2A antibody (KVA00466). Total cell lysates (20 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with TOP2A antibody (KVA00466, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.