

Topoisomerase 2 alpha Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51577

Specification

Topoisomerase 2 alpha Antibody - Product Information

Application	WB
Primary Accession	P11388
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	190 KDa
Antigen Region	21 - 80

Topoisomerase 2 alpha Antibody - Additional Information

Gene ID 7153

Other Names

DNA topoisomerase 2-alpha, DNA topoisomerase II, alpha isozyme, TOP2A, TOP2

Target/Specificity

KLH conjugated synthetic peptide derived from human Topoisomerase 2 alpha

Dilution

WB~~ 1:1000

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Topoisomerase 2 alpha Antibody - 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](http://www.uniprot.org/citations/17567603), PubMed: [18790802](http://www.uniprot.org/citations/18790802), PubMed: [22013166](http://www.uniprot.org/citations/22013166), PubMed: [22323612](http://www.uniprot.org/citations/22323612)). 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

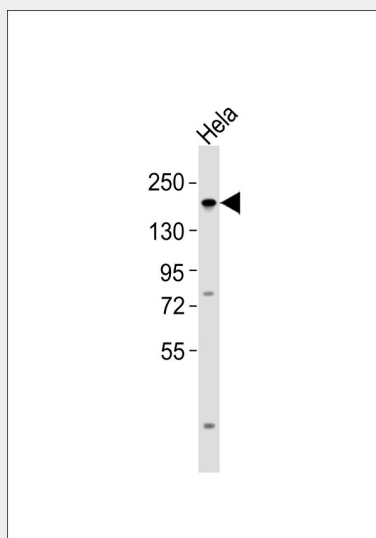
Expressed in the tonsil, spleen, lymph node, thymus, skin, pancreas, testis, colon, kidney, liver, brain and lung (PubMed:9155056). Also found in high-grade lymphomas, squamous cell lung tumors and seminomas (PubMed:9155056)

Topoisomerase 2 alpha Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Topoisomerase 2 alpha Antibody - Images



Anti-Topoisomerase 2 alpha Antibody at 1:1000 dilution + HeLa whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 174 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

Topoisomerase 2 alpha Antibody - Background

Control of topological states of DNA by transient breakage and subsequent rejoining of DNA strands. Topoisomerase II makes double-strand breaks. Essential during mitosis and meiosis for proper segregation of daughter chromosomes.

Topoisomerase 2 alpha Antibody - References

Tsai-Pflugfelder M., et al. Proc. Natl. Acad. Sci. U.S.A. 85:7177-7181(1988).
Wasserman R.A., et al. Cancer Res. 53:3591-3596(1993).

Lang A.J., et al. Gene 221:255-266(1998).
Sng J.H., et al. Biochim. Biophys. Acta 1444:395-406(1999).
Zody M.C., et al. Nature 440:1045-1049(2006).