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TOP2A / Topoisomerase II Alpha Antibody (aa1-50)

Rabbit Polyclonal Antibody
Catalog # ALS15102

Specification

TOP2A / Topoisomerase II Alpha Antibody (aa1-50) - Product Information

Application	**IF, WB, IHC**
Primary Accession	P11388
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**174kDa KDa**

TOP2A / Topoisomerase II Alpha Antibody (aa1-50) - Additional Information

Gene ID 7153

Other Names
DNA topoisomerase 2-alpha, 5.99.1.3, DNA topoisomerase II, alpha isozyme, TOP2A, TOP2

Target/Specificity
TOP2A Antibody detects endogenous levels of total TOP2A protein.

Reconstitution & Storage
Store at -20°C for up to one year.

Precautions
TOP2A / Topoisomerase II Alpha Antibody (aa1-50) is for research use only and not for use in diagnostic or therapeutic procedures.

TOP2A / Topoisomerase II Alpha Antibody (aa1-50) - 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). May play a role in regulating the period length of BMAL1 transcriptional oscillation (By similarity).

Cellular Location
Cytoplasm. Nucleus, nucleoplasm. Nucleus. Nucleus, nucleolus

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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)

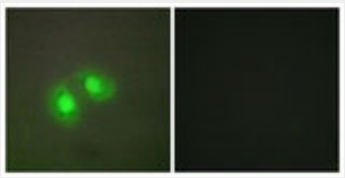
Volume
50 µl

TOP2A / Topoisomerase II Alpha Antibody (aa1-50) - Protocols

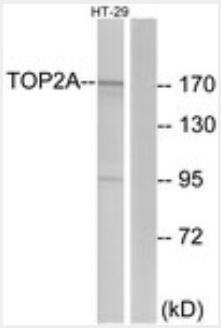
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TOP2A / Topoisomerase II Alpha Antibody (aa1-50) - Images

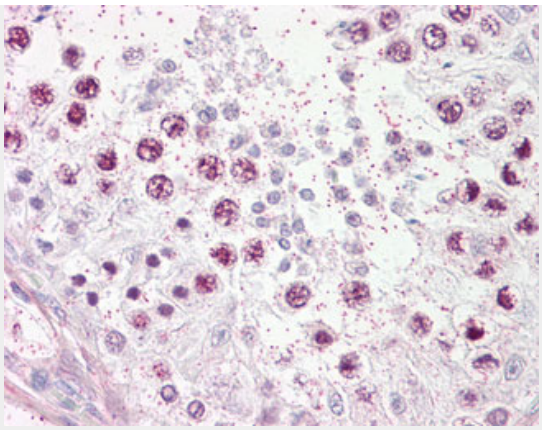


Immunofluorescence of A549 cells, using TOP2A Antibody.



Western blot of extracts from HT-29 cells, using TOP2A Antibody.

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Anti-TOP2A antibody IHC of human testis.

TOP2A / Topoisomerase II Alpha Antibody (aa1-50) - 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. May play a role in regulating the period length of ARNTL/BMAL1 transcriptional oscillation (By similarity).

TOP2A / Topoisomerase II Alpha Antibody (aa1-50) - 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).