

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

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)

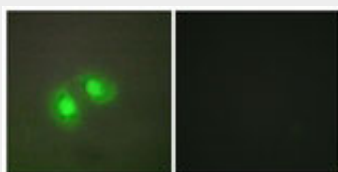
Volume

50 μ l

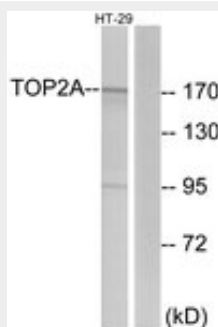
TOP2A / Topoisomerase II Alpha Antibody (aa1-50) - Protocols

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

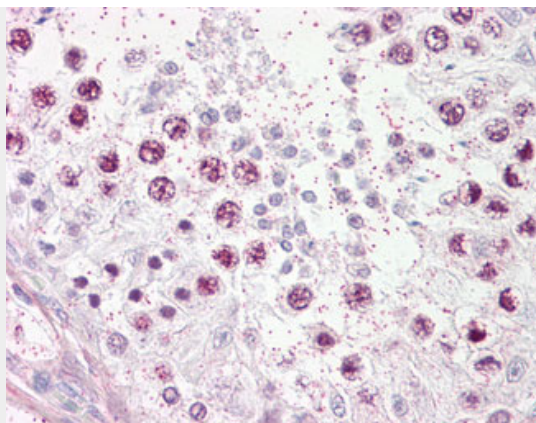
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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.



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).