

TOP2A Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9248b**Specification**

TOP2A Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P11388](#)**TOP2A Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 7153**Other Names**

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP9248b](/products/AP9248b) was selected from the C-term region of human TOP2A. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TOP2A Antibody (C-term) Blocking Peptide - 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)

TOP2A Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

TOP2A Antibody (C-term) Blocking Peptide - Images**TOP2A Antibody (C-term) Blocking Peptide - Background**

TOP2A 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.

TOP2A Antibody (C-term) Blocking Peptide - References

Kawamura,R., et.al, J. Cell Biol. 188 (5), 653-663 (2010)Alchanati,I., et.al, PLoS ONE 4 (12), E8104 (2009)