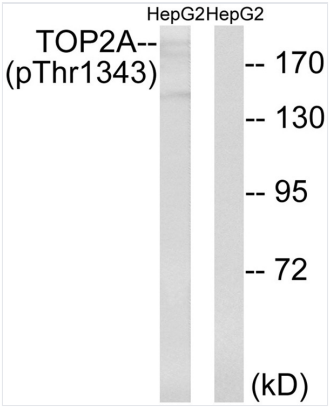
TOP2A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TOP2A, Polyclonal Antibody
Full Product Name	TOP2A (Phospho-Thr1343) Antibody
Product Gene Name	anti-TOP2A antibody
Product Synonym Names	TP2A; TOP2; TOP2A; P11388-1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of TOP2A only when phosphorylated at threonine 1343.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	182,681 Da
OMIM	126430
3D Structure	ModBase 3D Structure for P11388
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine1343(E-K-T(p)-D-D) derived from Human TOP2A.
Modification	Phospho-Thr1343
Target Name	TOP2A
Product Categories/Family for anti-TOP2A antibody	Phospho-specific Ab
Applications Tested/Suitable for anti-TOP2A antibody	Western Blot (WB)
Application Notes for anti-TOP2A antibody	Western blotting: 1:500~1:1000
Related Product Information for anti-TOP2A antibody	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. Tsai-Pflugfelder M., Proc. Natl. Acad. Sci. U.S.A. 85:7177-7181(1988).Wasserman R.A., Cancer Res. 53:3591-3596(1993).Lang A.J., Gene 221:255-266(1998).
Other Notes	Small volumes of anti-TOP2A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for TOP2A purchase	MBS9405440 is an antibody targeting TOP2A. Also known as TOP2A (Phospho-Thr1343) Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-TOP2A antibody
Western blot analysis of extracts from HepG2 cells treated with Ca2+ using TOP2A (Phospho-Thr1343) Antibody.The lane on the right is treated with the antigen-specific peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TOP2A. It may not necessarily be applicable to this product.

NCBI GI #	19913406
NCBI GeneID	7153
NCBI Accession #	NP_001058.2
UniProt Primary Accession #	P11388
UniProt Secondary Accession #	Q71UN1; Q71UQ5; Q9HB24; Q9HB25; Q9HB26; Q9UP44; Q9UQP9; B2RTS1
UniProt Related Accession #	P11388
GenBank Nucleotide #	NM_001067.3
NCBI Official Full Name	DNA topoisomerase 2-alpha
NCBI Official Synonym Full Names	topoisomerase (DNA) II alpha
NCBI Official Symbol	TOP2A
NCBI Official Synonym Symbols	TOP2; TP2A
UniProt Protein Name	DNA topoisomerase 2-alpha
UniProt Synonym Protein Names	DNA topoisomerase II, alpha isozyme
Protein Family	DNA topoisomerase
UniProt Gene Name	TOP2A
UniProt Synonym Gene Names	TOP2
UniProt Entry Name	TOP2A_HUMAN
NCBI Protein Information	DNA topoisomerase 2-alpha

NCBI Summary for TOP2A	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]
UniProt Comments for TOP2A	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 ().
Research Articles on TOP2A	**1.** Combined detection of MDR-related proteins ToPo II, MRP and GST-pi may be prospectively valuable for postoperative individualized chemotherapy, and further predict the outcomes of gastric cancer patients.
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