TOP2A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Top2a, Polyclonal Antibody
Full Product Name	Top2a (Phospho-Ser1333) Antibody
Product Gene Name	anti-Top2a antibody
Product Synonym Names	DNA topoisomerase 2-alpha; DNA topoisomerase II; alpha isozyme
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH7.4, 150mM NaCl, 0.02% sodium azide and 146% glycerol
Purity/Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Concentration	1mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C for long term preservation (recommended). Store at 100 degree C for short term use.
Molecular Weight	172,790 Da
3D Structure	ModBase 3D Structure for Q01320
Immunogen	Peptide-KLH
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	WB: 1:500-1:1000
Related Product Information for anti-Top2a antibody	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:1331984). May play a role in regulating the period length of ARNTL/BMAL1 transcriptional oscillation (PubMed:24321095).
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	MBS9458605 is an antibody targeting Top2a. Also known as Top2a (Phospho-Ser1333) Antibody. Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Top2a. It may not necessarily be applicable to this product.

NCBI GI #	153945749
NCBI GeneID	21973
NCBI Accession #	NP_035753.2

UniProt Primary Accession #	Q01320
UniProt Secondary Accession #	E9PX08
UniProt Related Accession #	Q01320
GenBank Nucleotide #	NM_011623.2
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	Top-2
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	Top-2; Top2
NCBI Protein Information	DNA topoisomerase 2-alpha
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 (PubMed:24321095).
Research Articles on Top2a	**1.** Deletion or deficiency of PTEN leads to down regulation of TOP2A, dysfunction of the decatenation checkpoint and incomplete DNA decatenation in G2 and M phases.
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