topA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	topA, Polyclonal Antibody
Full Product Name	Rabbit anti-Salmonella typhimurium (strain LT2/SGSC1412/700720) topA Polyclonal Antibody
Product Gene Name	anti-topA antibody
Product Synonym Names	topA Antibody; DNA topoisomerase 1; EC 5.99.1.2; DNA topoisomerase I; Omega-protein; Relaxing enzyme; Swivelase; Untwisting enzyme; topA STM1714
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Salmonella typhimurium (strain LT2/SGSC1412/ 700720)
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH7.4
Purity/Purification	Antigen-affinity
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	97,303 Da
3D Structure	ModBase 3D Structure for P0A2I1
Immunogen	Recombinant Salmonella typhimurium (strain LT2 / SGSC1412 / 700720) topA protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-topA antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-topA antibody	MBS7142420 is an antibody targeting topA. Also known as Rabbit anti-Salmonella typhimurium (strain LT2/SGSC1412/700720) topA Polyclonal Antibody. Reactive in Salmonella typhimurium (strain LT2/SGSC1412/ 700720). Host: Rabbit.
Other Notes	Small volumes of anti-topA 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.

ADDITIONAL DETAILS

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

NCBI GI #	16765058
NCBI GeneID	1253233
NCBI Accession #	NP_460673.1
UniProt Primary Accession #	P0A2I1

UniProt Secondary Accession #	P40686
UniProt Related Accession #	P0A2I1
GenBank Nucleotide #	NC_003197.2
NCBI Official Full Name	DNA topoisomerase I
NCBI Official Symbol	topA
UniProt Protein Name	DNA topoisomerase 1
UniProt Synonym Protein Names	DNA topoisomerase I
UniProt Gene Name	topA
NCBI Protein Information	DNA topoisomerase I
UniProt Comments for topA	Releases the supercoiling and torsional tension of DNA, which is introduced during the DNA replication and transcription, by transiently cleaving and rejoining one strand of the DNA duplex. Introduces a single-strand break via transesterification at a target site in duplex DNA. The scissile phosphodiester is attacked by the catalytic tyrosine of the enzyme, resulting in the formation of a DNA-(5'-phosphotyrosyl)-enzyme intermediate and the expulsion of a 3'-OH DNA strand. The free DNA strand then undergoes passage around the unbroken strand, thus removing DNA supercoils. Finally, in the religation step, the DNA 3'-OH attacks the covalent intermediate to expel the active-site tyrosine and restore the DNA phosphodiester backbone.
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