

For Research Use Only

TOP3A Recombinant monoclonal antibody

Catalog Number: 87558-1-RR



Basic Information

Catalog Number: 87558-1-RR	GenBank Accession Number: BC051748	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 7156	CloneNo.: 252729C12
Source: Rabbit	UNIPROT ID: Q13472	Recommended Dilutions: WB: 1:2000-1:10000
Isotype: IgG	Full Name: topoisomerase (DNA) III alpha	
Immunogen Catalog Number: AG6010	Calculated MW: 1001 aa, 112 kDa	
	Observed MW: 100-110 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HeLa cells, HEK-293 cells, MCF-7 cells, A549 cells, HCT 116 cells, mouse testis tissue, rat testis tissue
Species Specificity: human, mouse, rat	

Background Information

DNA topoisomerase 3-alpha (TOP3A) is an essential component of the RMI complex, a complex involved in the processing of homologous recombination intermediates to limit DNA crossover formation in cells. It releases the supercoiling and torsional tension of DNA 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. This antibody is specific to react with the 110 kDa human TOP3A.

Storage

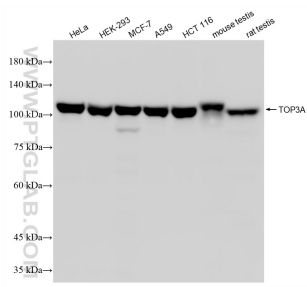
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1%BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87558-1-RR (TOP3A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.