

For Research Use Only

TOP2A-Specific Recombinant monoclonal antibody

Catalog Number: 82738-10-RR



Basic Information

Catalog Number:	82738-10-RR	GenBank Accession Number:	NM_001067	Purification Method:	Protein A purification
Size:	100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI):	7153	CloneNo.:	253104A1
Source:	Rabbit	UNIPROT ID:	P11388	Recommended Dilutions:	IHC: 1:500-1:2000 IF/ICC: 1:200-1:800
Isotype:	IgG	Full Name:	topoisomerase (DNA) II alpha 170kDa		
		Calculated MW:	174 kDa		

Applications

Tested Applications:	IHC, IF/ICC, ELISA	Positive Controls:	
Species Specificity:	human	IHC :	human tonsillitis tissue,
		IF/ICC :	U2OS cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

TOP2A, also named as TOP2, belongs to the type II topoisomerase family. Topoisomerase II makes double-strand breaks. TOP2 control the topological states of DNA by transient breakage and subsequent rejoining of DNA strands. TOP2A may play a role in regulating the period length of ARNTL/BMAL1 transcriptional oscillation. DNA topoisomerase IIa (170 kDa, TOP2a/170) is essential in proliferating cells by resolving DNA topological entanglements during chromosome condensation, replication, and segregation.

Storage

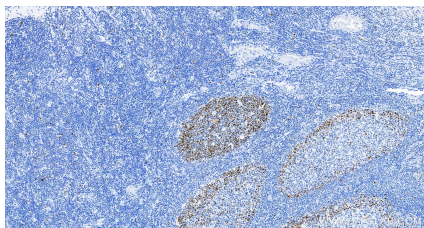
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

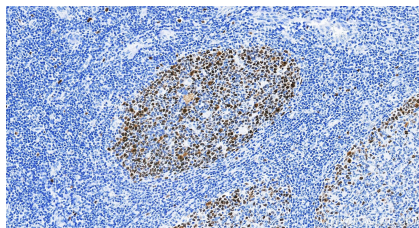
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

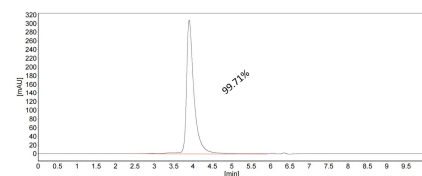
Selected Validation Data



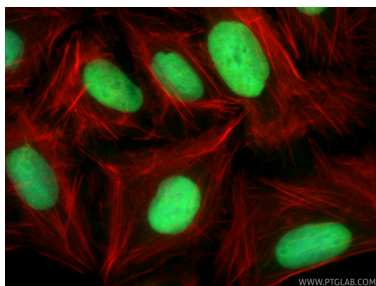
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 82738-10-RR (TOP2A-Specific antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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The purity of Human TOP2A-Specific Recombinant monoclonal antibody (Cat. No. 82738-10-RR) was greater than 95% as determined by SEC-HPLC.



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using TOP2A-Specific antibody (82738-10-RR, Clone: 253104A1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).