

Product Name: Topoisomerase I Rabbit Monoclonal Antibody
Catalog #: AMRe02703



Summary

Production Name	Topoisomerase I Rabbit Monoclonal Antibody
Description	Recombinant Rabbit Monoclonal antibody
Host	Rabbit
Application	WB,IHC-F,IHC-P,ICC/IF
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal Antibody
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Purification	Affinity Purified

Immunogen

Gene Name	TOP1
Alternative Names	TOP1; DNA topoisomerase 1; DNA topoisomerase I
Gene ID	7150
SwissProt ID	P11387

Application

Dilution Ratio	WB: 1/500-1/1000 IHC: 1/50-1/100 IF: 1/50-1/200
Molecular Weight	Calculated MW: 91 kDa; Observed MW: 91 kDa

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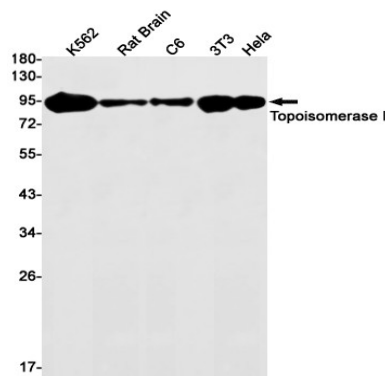
Background

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-(3'-phosphotyrosyl)-enzyme intermediate and the expulsion of a 5'-OH DNA strand.

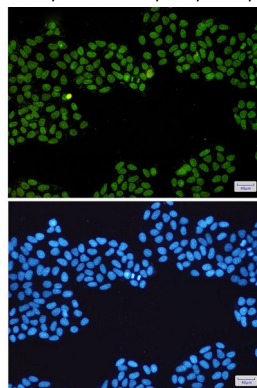
Research Area

Epigenetics and Nuclear Signaling

Image Data

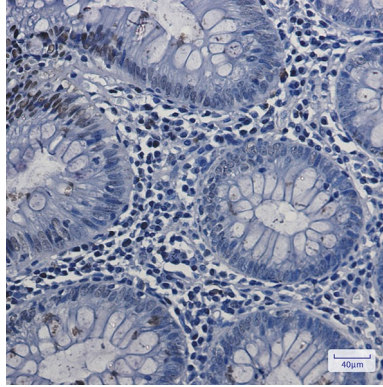


Western blot analysis of Topoisomerase I in K562, rat Brain, C6, 3T3, HeLa lysates using Topoisomerase I antibody.



Immunocytochemistry analysis of Topoisomerase I (green) in HeLa using Topoisomerase I antibody, and DAPI (blue)

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Immunohistochemistry analysis of paraffin-embedded Human colon cancer using Topoisomerase I antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Note

For research use only.