

A Reliable Research Partner in Life Science and Medicine

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Recombinant Topoisomerase I Monoclonal Antibody

catalog number: AN301767L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Human;Rat;Mouse

Immunogen Recombinant human Topoisomerase I fragment

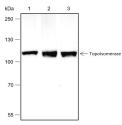
HostRabbitIsotypeIgG, κCloneA475

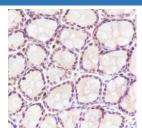
Purification Protein A purified

Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution	
WB	1:500-1:2000	
IHC	1:100-1:500	
IF	1:50	
FCM	1:50-1:100	
IP	1:25-1:50	

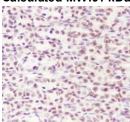
Data

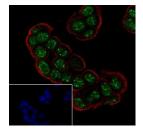




Western Blot with Topoisomerase I Monoclonal Antibody at Immunohistochemistry of paraffin-embedded Mouse colon dilution of 1:2000. Lane 1: Jurkat, Lane 2: Neuro-2a, Lane 3: using Topoisomerase I Monoclonal Antibody at dilution of PC-12 1:500.

Observed-MW:108 kDa Calculated-MW:91 kDa





Immunohistochemistry of paraffin-embedded Rat stomach using Topoisomerase I Monoclonal Antibody at dilution of 1:500.

Immunofluorescent analysis of (100% Ice-cold methanol) fixed MCF-7 cells using anti-Topoisomerase I Monoclonal Antibody at dilution of 1:50.

Rev. V1.1

For Research Use Only

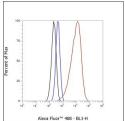
 Toll-free: 1-888-852-8623
 Tel: 1-832-243-6086
 Fax: 1-832-243-6017

 Web: www.elabscience.com
 Email: techsupport@elabscience.com

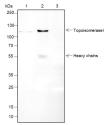
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Flow cytometric analysis of human Topoisomerase I expression on HepG2 cells. Cells were stained with purified Monoclonal Antibody. Western blot was performed from the anti-Human Topoisomerase I, then a Alexa Fluor 488conjugated second step antibody. The histogram were derived from events with the forward and side light-scatter characteristics of intact cells.



Immunoprecipitation analysis using anti-Topoisomerase I immunoprecipitate using Topoisomerase I Monoclonal Antibody at a dilution of 1:50. Lane 1: 10% Input, Lane 2: Topoisomerase I Monoclonal Antibody, Lane 3: Rabbit monoclonal IgG Isotype

> Observed-MW:108 kDa Calculated-MW:91 kDa

Preparation & Storage

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

Background

DNA topoisomerases play essential roles in many DNA metabolic processes including DNA repair. Topoisomerases can introduce DNA damage upon exposure to drugs that stabilize the covalent protein-DNA intermediate of the topoisomerase reaction. Lesions in DNA are also able to trap topoisomerase-DNA intermediates. DNA topoisomerase I (Top1) catalyzes the relaxation of supercoiled DNA by a mechanism of transient DNA strand cleavage characterized by the formation of a phosphotyrosyl bond between the DNA end and active site tyrosine.

Toll-free: 1-888-852-8623 Fax: 1-832-243-6017 Tel: 1-832-243-6086 Web: www.elabscience.com Email: techsupport@elabscience.com Rev. V1.1