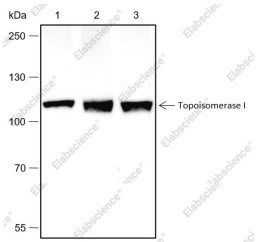
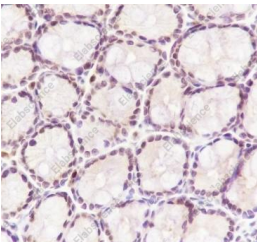
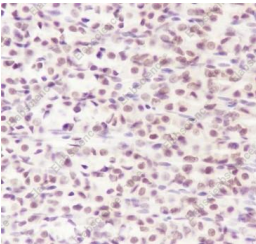
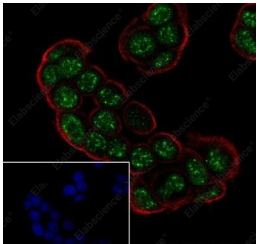


Recombinant Topoisomerase I Monoclonal Antibody

catalog number: AN301767L

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

Description	
Reactivity	Human;Mouse;Rat
Immunogen	Recombinant human Topoisomerase I fragment
Host	Rabbit
Isotype	Rabbit IgG
Clone	C111389
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 dilution of 1:2000. Lane 1: Jurkat, Lane 2: Neuro-2a, Lane 3: PC-12 Observed-MW:108 kDa Calculated-MW:91 kDa	 Immunohistochemistry of paraffin-embedded Mouse colon using Topoisomerase I Monoclonal Antibody at dilution of 1:500.
 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.

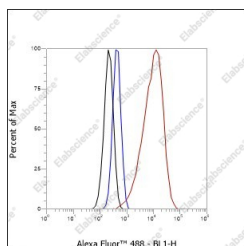
For Research Use Only

Toll-free: 1-888-852-8623
Web: www.elabscience.com

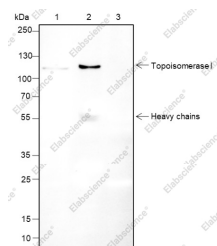
Tel: 1-832-243-6086
Email: techsupport@elabscience.com

Fax: 1-832-243-6017

Rev. V1.3



Flow cytometric analysis of human Topoisomerase I expression on HepG2 cells. Cells were stained with purified anti-Human Topoisomerase I, then a Alexa Fluor 488-conjugated 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 Monoclonal Antibody. Western blot was performed from the 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.