Recombinant Topoisomerase I Monoclonal Antibody

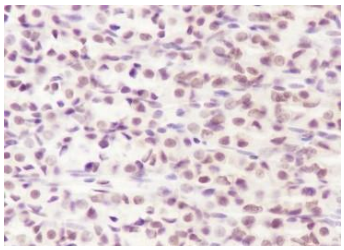
catalog number: AN301767L

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

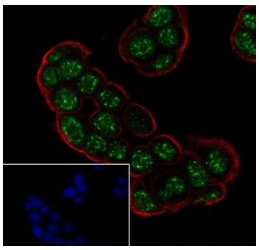
Description

Reactivity	Human;Rat;Mouse
Immunogen	Recombinant human Topoisomerase I fragment
Host	Rabbit
Isotype	IgG, κ
Clone	A475
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



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.

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.

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