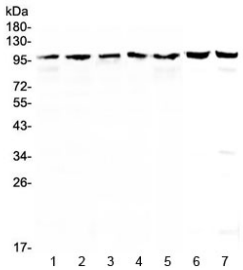
Topoisomerase I Antibody / TOP1 (RQ4168)

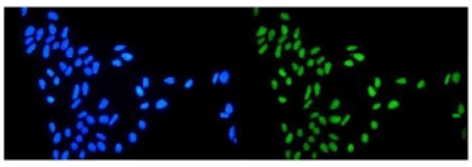
Catalog No.	Formulation	Size
RQ4168	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P11387
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 2-4ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This Topoisomerase I antibody is available for research use only.



Western blot testing of human 1) HeLa, 2) COLO320, 3) HepG2, 4) A431, 5) SK-OV-3, 6) rat testis and 7) mouse testis lysate with Topoisomerase I antibody at 0.5ug/ml. Predicted molecular weight: 91-100 kDa.



Immunofluorescent staining of FFPE human HeLa cells with Topoisomerase I antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

Description

DNA topoisomerase 1 is an enzyme that in humans is encoded by the TOP1 gene. This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This enzyme catalyzes the transient breaking and rejoining of a single strand of DNA which allows the strands to pass through one another, thus altering the topology of DNA. This gene is localized to chromosome 20 and has pseudogenes which reside on chromosomes 1 and 22.

Application Notes

Optimal dilution of the Topoisomerase I antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids E526-F765 was used as the immunogen for the Topoisomerase I antibody.

Storage

After reconstitution, the Topoisomerase I antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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