SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Marker Primary Antibody]

Rabbit Anti-Topoisomerase I/AF594 Conjugated antibody

Catalog Number: SL23144R-AF594

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Topoisomerase I/AF594
Immunogen:	KLH conjugated synthetic peptide derived from human Topoisomerase I
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Chicken,Pig,Cow,Horse,Rabbit,Sheep)
Background:	background: 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. [provided by RefSeq, Jul 2008] **Function:** The reaction catalyzed by topoisomerases leads to the conversion of one topological isomer of DNA to another. **Subcellular Location:** Nucleus, nucleolus. Nucleus, nucleoplasm. Diffuse nuclear localization with some enrichment in nucleoli. On CPT treatment, cleared from nucleoli into nucleoplasm. Sumolyated forms found in both nucleoplasm and nucleoli. **Post-translational modifications:** Sumoylated. Lys-117 is the main site of sumoylation. Sumoylation plays a role in partitioning TOP1 between nucleoli

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	and nucleoplasm. Levels are dramatically increased on camptothecin (CPT) treatment. DISEASE: Note=A chromosomal aberration involving TOP1 is found in a form of therapy-related myelodysplastic syndrome. Translocation t(11;20)(p15;q11) with NUP98. **Similarity:** Belongs to the eukaryotic type I topoisomerase family. **Database links:** **Entrez Gene:** 7150 Human **Entrez Gene:** 21969 Mouse **Entrez Gene:** 64550 Rat **Entrez Gene:** 281539 Cow Omim: 126420 Human **SwissProt:** P11387 Human **SwissProt:** Q04750 Mouse **SwissProt:** Q9WUL0 Rat **Unigene:** 472737 Human **Unigene:** 712686 Human **Unigene:** 217233 Mouse **Unigene:** 91572 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.