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Rabbit Anti-Topoisomerase I/AF350 Conjugated antibody

SL23144R-AF350

Product Name	Anti-Topoisomerase I/AF350
Chinese Name	AF350 标记的拓普西异构酶I抗体
Alias	DNA topoisomerase 1; DNA topoisomerase I; NUP98 fusion gene; TOP 1; TOP I; TOP1; TOP1_HUMAN; TOPI; Topoisomerase 1; Topoisomerase1; TopoisomeraseI; Type I DNA topoisomerase.
Research Area	Cell biology Chromatin and nuclear signals
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat(predicted:Chicken,Pig,Cow,Horse,Rabbit,Sheep)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	91kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Topoisomerase I
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
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.
Product Detail	**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 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.