Bioworld Technology CO., Ltd.

Topo IIβ (A32) Peptide

Cat No.: BS1479P

Background

Topoisomerases are nuclear enzymes involved in a variety of cellular activities such as chromosome condensation, DNA replication, transcription, recombination and segregation at mitosis. Human topoisomerase I is a 100kD protein capable of relaxing positively and negatively supercoiled DNA by performing a transient single stranded nick which is then religated at the end of the reaction. It has been shown that the enzyme is located in regions of the genome that are undergoing active RNA synthesis, where it probably reduces superhelical stresses in the DNA, enabling RNA polymerase to function properly. Both DNA topoisomerases I and II have been found to be targets of autoantibodies in the sera of patients with certain autoimmune diseases such as systemic lupus erythematosus and also of some anti tumor drugs and antibiotics. Elevated levels of DNA topoisomerase I, detected by transfer assays, have been demonstrated in colorectal tumors compared with normal colon mucosa as a result of increased transcription or mRNA stability.

Swiss-Prot

Q02880

Applications

Blocking

Specificity

This peptide can be used with studies using BS1479 Topo IIβ (A32) pAb.

Purification & Purity

Synthetic peptide Topo IIβ (A32). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Research Use

For research use only, not for use in diagnostic procedure.

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