

Product Datasheet

TOP1 Antibody

Catalog No: CY5725

Reactivity: Human Mouse

Isotype: Rabbit IgG

Applications: WB IHC ICC/IF FC



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Information

UniProt ID: P11387

All Names: DNA topoisomerase 1; DNA topoisomerase I; TOP1; TOPI; topoisomerase I; type I DNA topoisomerase;

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 91 kDa

Application

WB: 1:1000~1:2000

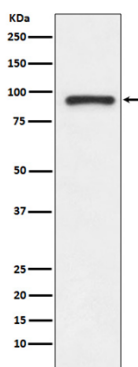
IHC: 1:50~1:200

ICC/IF: 1:50~1:200

FC: 1:50

Background

Releases the supercoiling and torsional tension of DNA introduced during the DNA replication and transcription by transiently cleaving and rejoining one strand of the DNA duplex. Introduces a single-strand break via transesterification at a target site in duplex DNA. The scissile phosphodiester is attacked by the catalytic tyrosine of the enzyme, resulting in the formation of a DNA-(3'-phosphotyrosyl)-enzyme intermediate and the expulsion of a 5'-OH DNA strand. The free DNA strand then undergoes passage around the unbroken strand thus removing DNA supercoils. Finally, in the religation step, the DNA 5'-OH attacks the covalent intermediate to expel the active-site tyrosine and restore the DNA phosphodiester backbone (By similarity).



Western blot analysis of TOP1 expression in Jurkat cell lysate.

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