



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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DNA Topoisomerase 1. Rabbit Antigen Immunoaffinity Purified Polyclonal

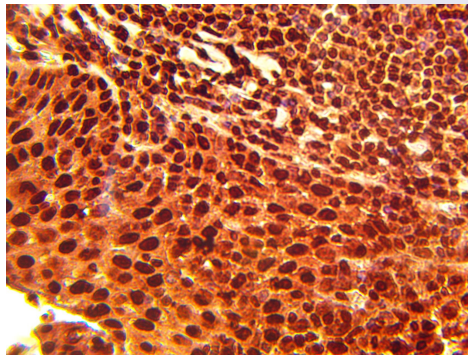
BACKGROUND

DNA Topoisomerase 1 releases the supercoiling and torsional tension of DNA introduced during DNA replication and transcription by transiently cleaving and rejoining one strand of the DNA duplex. It 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, Regulates the alternative splicing of tissue factor (F3) pre-mRNA in endothelial cells.

IMMUNOGEN

Synthetic peptide made to human DNA Topoisomerase 1

Immunohistochemical staining of normal human tonsil tissue using TOP1 antibody (Cat. No. X2732P) at 10 µg/ml and detected using anti-Rabbit HRP secondary antibody and visualized using DAB substrate and hematoxylin counterstain.



ORDERING INFORMATION

CATALOG NUMBER

X2732P

SIZE

100 µg

FORM

Affinity Purified

HOST/CLONE

Rabbit

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

Ig

APPLICATIONS

Immunohistochemistry (paraffin-embedded)

SPECIES REACTIVITY

Human

ACCESSION NUMBER

Human P11387

POSITIVE CONTROL/TISSUE EXPRESSION

Found in Endothelial cells.

COMMENTS

Antibody can be used for immunohistochemistry at 5-10 $\mu\text{g/ml}$ on paraffin-embedded tissues. Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Antigen Immunoaffinity Purification

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C . Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Oddou, P., et al. 'Monoclonal antibodies neutralizing mammalian DNA topoisomerase I activity.' Eur. J. Biochem. 1988, 177, 523-529
2. Redinbo, M.R., et al. 'Novel insights into catalytic mechanism from a crystal structure of human topoisomerase I in complex with DNA.' Biochemistry 2000, 39, 6832-6840
3. Eisenreich, A., et al. 'Cdc2-like kinases and DNA topoisomerase I regulate alternative splicing of tissue factor in human endothelial cells.' Circ. Res. 2009, 104, 589-599

PRODUCT SPECIFIC REFERENCES