

Product datasheet for **TA328117**

Topoisomerase I (TOP1) Mouse Monoclonal Antibody [Clone ID: 1291CT875.142.166]

Product data:

| | |
|-----------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | 1291CT875.142.166 |
| Applications: | WB |
| Recommended Dilution: | WB: 1:1000 |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1, kappa |
| Clonality: | Monoclonal |
| Immunogen: | This TOP1 antibody is generated from a mouse immunized with a recombinant protein from the N-terminal region of human TOP1. |
| Formulation: | PBS with 0.09% (W/V) sodium azide |
| Concentration: | lot specific |
| Purification: | This antibody is purified through a protein G column, followed by dialysis against PBS. |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Gene Name: | topoisomerase (DNA) I |
| Database Link: | NP_003277 Entrez Gene 7150 Human P11387 |



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Background:

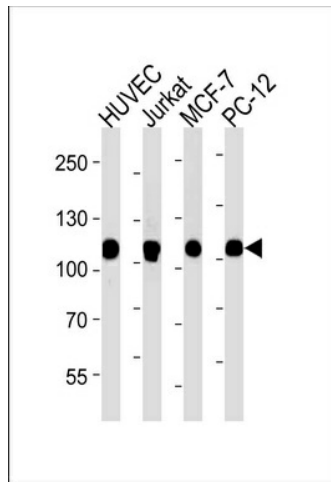
Releases the supercoiling and torsional tension of DNA introduced during the DNA replication and transcription by transiently cleaving and rejoining one strand of the DNA duplex. Introduces a single-strand break via transesterification at a target site in duplex DNA. The scissile phosphodiester is attacked 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). Regulates the alternative splicing of tissue factor (F3) pre-mRNA in endothelial cells.

Synonyms:

TOP1

Protein Families:

Druggable Genome

Product images:

Western blot analysis of lysates from HUVEC, Jurkat, MCF-7, PC-12 cell line (from left to right), using TOP1 Antibody (N-term) (Cat. #TA328117). TA328117 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.