

## Product datasheet for **TA328117S**

### 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:	<a href="#">NP_003277</a> <a href="#">Entrez Gene 7150 Human</a> <a href="#">P11387</a>

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**Background:**

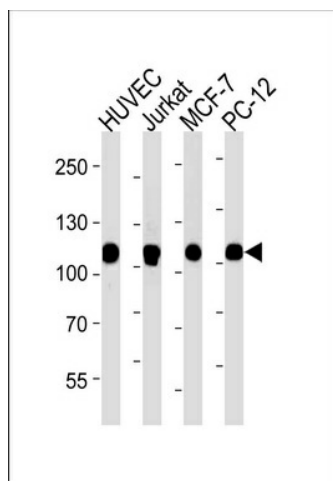
Releases the supercoiling and torsional tension of DNA introduced during the DNA replication and transcription by transiently cleaving and rejoining one strand of the DNA duplex. Introduces a single-strand break via transesterification at a target site in duplex DNA. The scissile phosphodiester is attacked 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.