

Topo III β -1 Polyclonal Antibody
Catalog # AP72881**Specification**

Topo III β -1 Polyclonal Antibody - Product Information

Application	WB
Primary Accession	O95985
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

Topo III β -1 Polyclonal Antibody - Additional Information**Gene ID** 8940**Other Names**

TOP3B; TOP3B1; DNA topoisomerase 3-beta-1; DNA topoisomerase III beta-1

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Topo III β -1 Polyclonal Antibody - Protein Information**Name** TOP3B**Synonyms** TOP3B1**Function**

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-(5'-phosphotyrosyl)- enzyme intermediate and the expulsion of a 3'-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 3'-OH attacks the covalent intermediate to expel the active-site tyrosine and restore the DNA phosphodiester backbone (By similarity). Possesses negatively supercoiled DNA relaxing activity.

Tissue Location

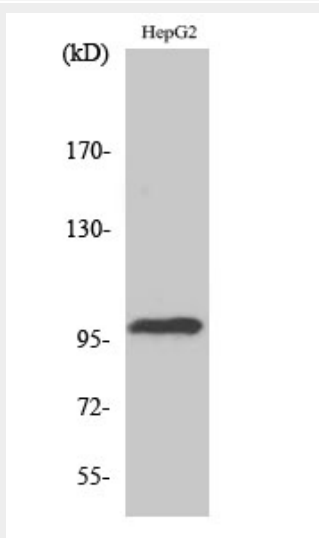
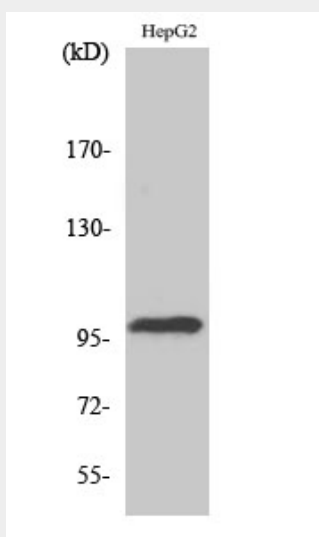
Isoform 1 is found in testis, heart and skeletal muscle. A 4 kb transcript which probably represents isoform 2 is found in thymus, kidney and pancreas.

Topo III β -1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Topo III β -1 Polyclonal Antibody - Images



Topo III β -1 Polyclonal Antibody - Background

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