

Topo III β -1 Polyclonal Antibody

Catalog No :	YT4698
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	Topo III β -1
Fields :	>>Homologous recombination;>>Fanconi anemia pathway
Gene Name :	TOP3B
Protein Name :	DNA topoisomerase 3-beta-1
Human Gene Id :	8940
Human Swiss Prot No :	O95985
Mouse Gene Id :	21976
Mouse Swiss Prot No :	Q9Z321
Immunogen :	The antiserum was produced against synthesized peptide derived from human TOP3B. AA range:51-100
Specificity :	Topo III β -1 Polyclonal Antibody detects endogenous levels of Topo III β -1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year (Do not lower than -25°C)

Observed Band : 96kD

Cell Pathway : Homologous recombination;

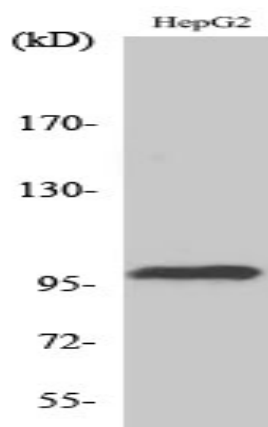
Background : This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This enzyme catalyzes the transient breaking and rejoining of a single strand of DNA which allows the strands to pass through one another, thus relaxing the supercoils and altering the topology of DNA. The enzyme interacts with DNA helicase SGS1 and plays a role in DNA recombination, cellular aging and maintenance of genome stability. Low expression of this gene may be related to higher survival rates in breast cancer patients. This gene has a pseudogene on chromosome 22. Alternate splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Aug 2013],

Function : catalytic activity:ATP-independent breakage of single-stranded DNA, followed by passage and rejoining.,function:Possesses negatively supercoiled DNA relaxing activity.,similarity:Belongs to the prokaryotic type I/III topoisomerase family.,tissue specificity: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.,

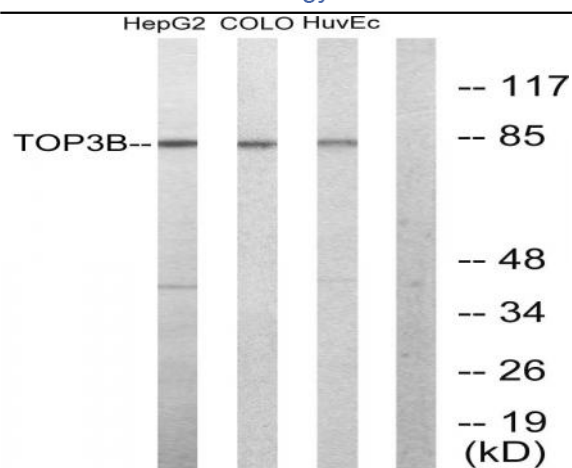
Subcellular Location : condensed chromosome,nucleus,cytosol,

Expression : 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.

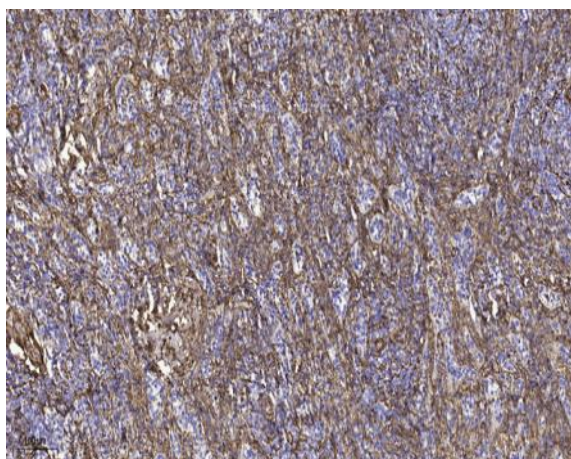
Products Images



Western Blot analysis of various cells using Topo IIIβ-1 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).



Western blot analysis of lysates from HepG2, COLO205, and HUVEC cells, using TOP3B Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human spleen tissue. 1, primary Antibody was diluted at 1:200 (4° overnight). 2, Sodium citrate pH 6.0 was used for antigen retrieval (>98 °C, 20min). 3, Secondary antibody was diluted at 1:200