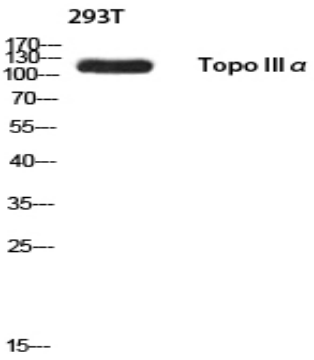
Best Tools for immunology Research

Topo IIIα Polyclonal Antibody

Catalog No :	YT5666
Reactivity :	Human;Mouse
Applications :	WB;ELISA
Target :	Topo IIIα
Fields :	>>Homologous recombination;>>Fanconi anemia pathway
Gene Name :	TOP3A
Protein Name :	DNA topoisomerase 3-alpha
Human Gene Id :	7156
Human Swiss Prot No :	Q13472
Mouse Gene Id :	21975
Mouse Swiss Prot No :	O70157
Immunogen :	Synthesized peptide derived from Topo IIIα . at AA range: 350-430
Specificity :	Topo IIIα Polyclonal Antibody detects endogenous levels of Topo IIIα 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. ELISA: 1:10000. Not yet tested in other applications.
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 :	115kD
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 reducing the number of supercoils and altering the topology of DNA. This enzyme forms a complex with BLM which functions in the regulation of recombination in somatic cells. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016],
Function :	catalytic activity:ATP-independent breakage of single-stranded DNA, followed by passage and rejoining.,function:Reduces the number of supercoils in a highly negatively supercoiled DNA. Essential component of the RMI complex, a complex that plays an important role in the processing of homologous recombination intermediates to limit DNA crossover formation in cells.,similarity:Belongs to the prokaryotic type I/III topoisomerase family.,subunit:Directly interacts with BLM and RMI1. Component of the RMI complex, containing at least TOP3A, RMI1 and RMI2. The RMI complex interacts with BLM.,tissue specificity:High expression is found in testis, heart, skeletal muscle and pancreas.,
Subcellular Location :	Mitochondrion matrix .
Expression :	High expression is found in testis, heart, skeletal muscle and pancreas.
Sort :	17277
No4 :	1

Products Images



Western blot analysis of 293T using Topo IIIα antibody. Antibody was diluted at 1:500. Secondary antibody(catalog#:RS0002) was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).