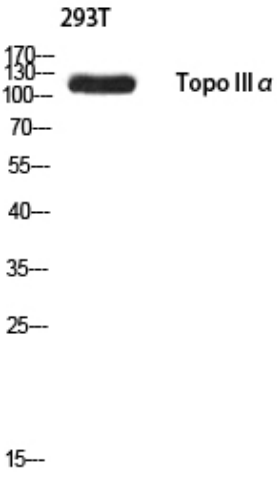
Topo IIIα Polyclonal Antibody

Catalog No	BYab-18688
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	TOP3A
Protein Name	DNA topoisomerase 3-alpha
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	TOP3A; TOP3; DNA topoisomerase 3-alpha; DNA topoisomerase III alpha
Observed Band	115kD
Cell Pathway	Mitochondrion matrix .
Tissue Specificity	High expression is found in testis, heart, skeletal muscle and pancreas.
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.,
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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).