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Datasheet for ABIN7120017

anti-TOP3A antibody



Overview

Quantity:	100 μg
Target:	TOP3A
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	topoisomerase(DNA) III alpha
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	TOP3A
Alternative Name:	TOP3A (TOP3A Products)
Background:	Synonyms:TOP3 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-(5'-phosphotyrosyl)-enzyme intermediate and

Target Details

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. 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. Has DNA decatenation activity.

Molecular Weight:	100-110 kDa
Gene ID:	7156
UniProt:	Q13472

Pathways: DNA Damage Repair

Application Details

Application Notes:	WB: 1:500-1:2000, IP: 1:200-1:2000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C for 12 months (Avoid repeated freeze / thaw cycles.)
Expiry Date:	12 months