

Rabbit anti-Human, Mouse TOP3A Polyclonal Antibody | anti-TOP3A antibody

TOP3A Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323966	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

TOP3A; Polyclonal Antibody; TOP3A Antibody; DNA topoisomerase 3 alpha; DNA topoisomerase 3-alpha; DNA topoisomerase III alpha; TOP 3; TOP3; TOP3A_HUMAN; topo III-alpha; topoisomerase (DNA) III alpha; topoisomerase (DNA) III; topoisomerase III alpha; ZGRF7; zinc finger; GRF-type containing 7; anti-TOP3A antibody

PRODUCT SPECIFICATIONS

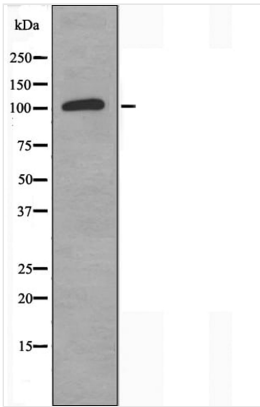
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	TOP3A antibody detects endogenous levels of total TOP3A
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	906
Applicable Applications for anti-TOP3A antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Tissue Specificity	High expression is found in testis, heart, skeletal muscle and pancreas.
Predicted Cross Reactivity	Rabbit, Dog, Xenopus
Similarity	Rabbit (88%), Dog (89%), Xenopus (88%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA323966 staining 293 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from 293 cells, using TOP3A antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-TOP3A antibody

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. 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.

Subunit Structure: Interacts (via N-terminal region) with BLM; the interaction is direct. Directly interacts with RMI1. Component of the RMI complex, containing at least TOP3A, RMI1 and RMI2. The RMI complex interacts with BLM.

Similarity: Belongs to the type IA topoisomerase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1002819406
NCBI GeneID	7156
NCBI Accession #	NP_001307688.1
NCBI GenBank Nucleotide #	NM_001320759.1
UniProt Accession #	Q13472; Q13473; A8KA61; B4DK80; D3DXC7
Molecular Weight	Observed: 115 kD Predicted: 113 kDa
NCBI Official Full Name	DNA topoisomerase 3-alpha isoform 2
NCBI Official Synonym Full Names	DNA topoisomerase III alpha
NCBI Official Symbol	TOP3A
NCBI Official Synonym Symbols	TOP3; PEOB5; ZGRF7; MGRISCE2
NCBI Protein Information	DNA topoisomerase 3-alpha
UniProt Protein Name	DNA topoisomerase 3-alpha
UniProt Gene Name	TOP3A
UniProt Synonym Gene Names	TOP3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/top3a-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/323966>