

Rabbit Topoisomerase I Monoclonal Antibody | anti-TOP1 antibody

Topoisomerase I

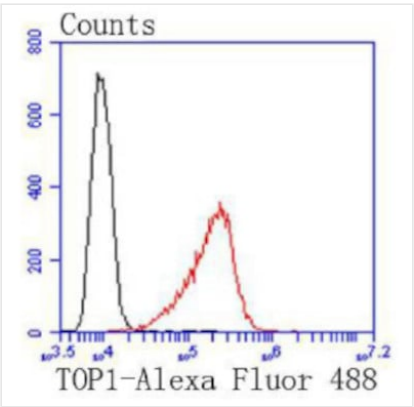
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA268393	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

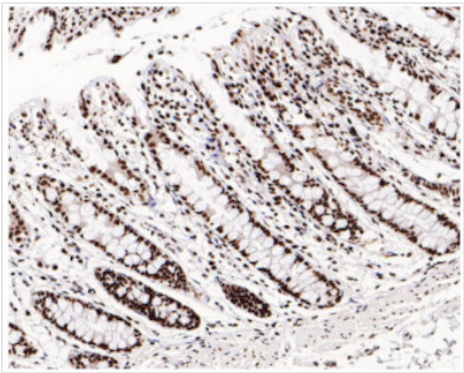
Topoisomerase I; Monoclonal Antibody; DNA topoisomerase 1; DNA topoisomerase I; TOP1; anti-TOP1 antibody

PRODUCT SPECIFICATIONS

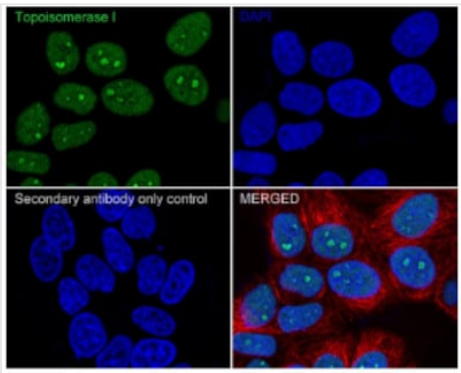
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG
Clone Number	19D4
Purity/Purification	Protein A Affinity Purification
Form/Format	Supplied in 1*TBS (pH7.4), 1% BSA, 40% Glycerol
Sequence Length	765
Applicable Applications for anti-TOP1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Recombinant Protein
Conjugation	APC
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.



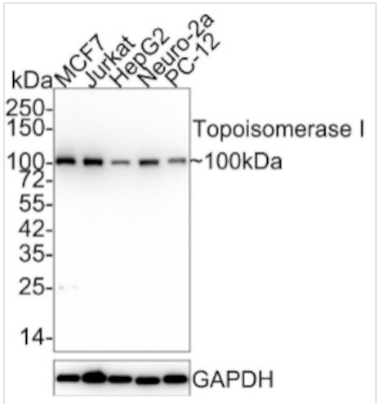
FCM/FACS (Flow Cytometry)
Flow cytometric analysis of Topoisomerase I was done on HepG2 cells. The cells were fixed, permeabilized and stained with the primary antibody (1/50) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated Goat anti-Rabbit IgG Secondary antibody at 1/1000 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human large intestine tissue with Rabbit anti-Topoisomerase I antibody at 1/1,000 dilution. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



ICC (Immunocytochemistry)
Immunocytochemistry analysis of MCF7 cells labeling Topoisomerase I with Rabbit anti-Topoisomerase I antibody at 1/1,000 dilution. Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Topoisomerase I antibody at 1/1,000 dilution in 1% BSA in PBST overnight at 4 degree C. Goat Anti-Rabbit IgG H&L (iFluor 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI. Beta tubulin (red) was stained at 1/100 dilution overnight at +4 degree C. Goat Anti-Mouse IgG H&L (iFluor 594) was used as the secondary antibody at 1/1,000 dilution.



WB (Western Blot)
Western blot analysis of Topoisomerase I on different lysates with Rabbit anti-Topoisomerase I antibody at 1/20,000 dilution. Lysates/proteins at 20 ug/Lane. Predicted band size: 91 kDa. Observed band size: 100 kDa. Exposure time: 2 minutes; 4-20% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody at 1/20,000 dilution was used in 5% NFDm/TBST at 4 degree C overnight. Goat Anti-Rabbit IgG-HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.

ADDITIONAL INFORMATION

Related Product Information for anti-TOP1 antibody	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 altering the topology of DNA. This gene is localized to chromosome 20 and has pseudogenes which reside on chromosomes 1 and 22. [provided by RefSeq, Jul 2008]
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NCBI AND UNIPROT INFORMATION

NCBI GI #	11225260
NCBI GeneID	7150
NCBI Accession #	NP_003277.1
NCBI GenBank Nucleotide #	NM_003286.3

UniProt Accession #	P11387; O43256; Q12855; Q12856; Q15610; Q5TFY3; Q9UJN0; A8KA78; E1P5W3
Molecular Weight	91kDa
NCBI Official Full Name	DNA topoisomerase 1
NCBI Official Synonym Full Names	DNA topoisomerase I
NCBI Official Symbol	TOP1
NCBI Official Synonym Symbols	TOPI
NCBI Protein Information	DNA topoisomerase 1
UniProt Protein Name	DNA topoisomerase 1
UniProt Gene Name	TOP1

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/monoclonal/topoisomerase-i-antibody-clone-19d4-flow-cytometry-immunohistochemistry-immunofluorescence-immunocytochemistry-western-blot-elisa/268393>