

Mouse anti-Human Topoisomerase (DNA) I, Mitochondrial (TOP1MT) Monoclonal Antibody | anti-TOP1MT antibody

Topoisomerase (DNA) I, Mitochondrial (TOP1MT)

CATALOG # AAA214895	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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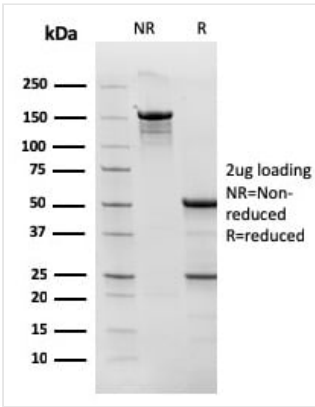
PRODUCT SYNONYMS

Topoisomerase (DNA) I; Mitochondrial (TOP1MT); Monoclonal Antibody; DNA topoisomerase I; TOP1MT; Topoisomerase I mitochondrial; Type IB Topoisomerase; anti-TOP1MT antibody

PRODUCT SPECIFICATIONS

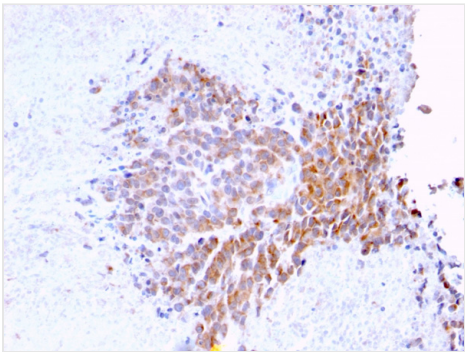
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	TOP1MT/568
Specificity	DNA topoisomerases are nuclear enzymes that regulate the topological structure of DNA in eukaryotic cells by transiently breaking and rejoining DNA strands. Due to their roles in DNA replication, recombination, and transcription, DNA topoisomerases have been identified as targets of numerous anticancer drugs. Mitochondrial Topo I (DNA topoisomerase I, mitochondrial) is a 601 amino acid protein that primarily acts to relieve DNA strain that may occur during duplication of mitochondrial DNA. As a type IB topoisomerase, mitochondrial Topo I requires a divalent metal, either, calcium or magnesium, as well as an alkaline pH for optimal activity.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	503
Applicable Applications for anti-TOP1MT antibody	IHC (Immunohistochemistry)
Positive Control	A431 cells. Heart, Skeletal muscle, brain or fetal liver.
Immunogen	Recombinant full-length human TOP1MT protein
Cellular Localization	Cytoplasmic (Mitochondria)
Hu-chromosome Location	8q24.3
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



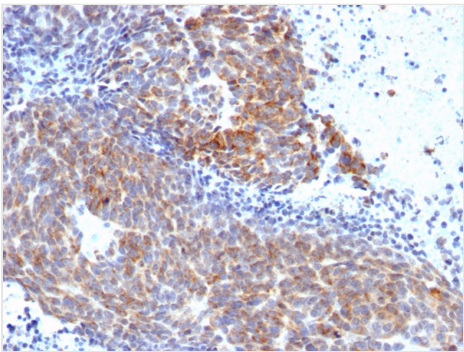
SDS-PAGE

SDS-PAGE Analysis Purified Topo I, MT Mouse Monoclonal Antibody (TOP1MT/568). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Melanoma stained with Topo I, MT Mouse Monoclonal Antibody (TOP1MT/568)



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Melanoma stained with Topo I, MT Mouse Monoclonal Antibody (TOP1MT/568).

ADDITIONAL INFORMATION

References	1. Zhang, H., et al. 2001. Proc. Natl. Acad. Sci. USA 98: 10608-10613. 2. Zhang, H., et al. 2007. Biochimie 89: 474-481
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NCBI AND UNIPROT INFORMATION

NCBI GI #	386642871
NCBI GeneID	116447
NCBI Accession #	NP_001245375.1
NCBI GenBank Nucleotide #	NP_001245375.1
UniProt Accession #	Q969P6
Molecular Weight	70kDa
NCBI Official Full Name	DNA topoisomerase I, mitochondrial isoform 2
NCBI Official Synonym Full Names	DNA topoisomerase I mitochondrial
NCBI Official Symbol	TOP1MT
NCBI Protein Information	DNA topoisomerase I, mitochondrial
UniProt Protein Name	DNA topoisomerase I, mitochondrial
UniProt Gene Name	TOP1MT

UniProt Synonym Gene Names	TOP1mt
UniProt Entry Name	TOP1M_HUMAN

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-dna-i-mitochondrial-top1mt-antibody-clone-top1mt-568-immunohistochemistry-elisa/214895>