

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

Topoisomerase (DNA) I, Mitochondrial (TOP1MT) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62691	Mouse	Human	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

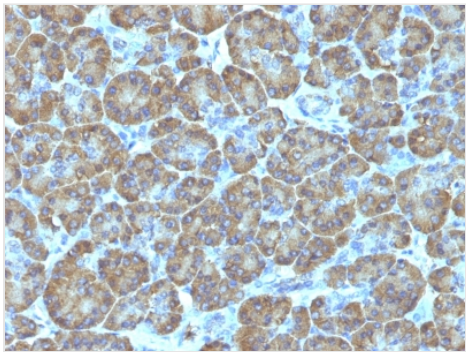
PRODUCT SYNONYMS

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

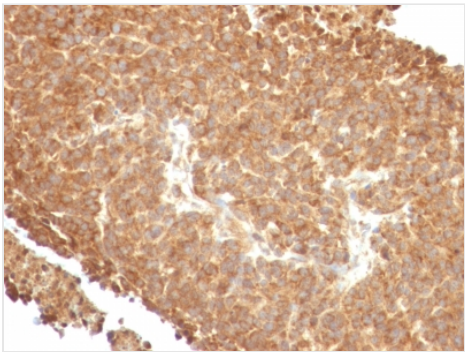
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	TOP1MT/488
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.
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), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Cytoplasmic (Mitochondria)
Immunogen	Recombinant full-length human TOP1MT protein
Hu-Chromosome Location	8q24.3
Positive Control	A431 cells. Heart, Skeletal muscle, brain or fetal liver.
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.

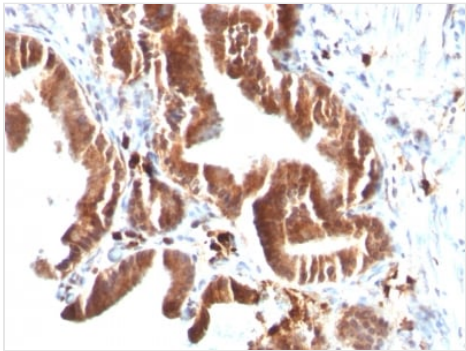
IMAGES



IHC (Immunohistochemisry)
Formalin-fixed, paraffin-embedded human Pancreas stained with Topo I, MT Monoclonal Antibody (TOP1MT/488).



IHC (Immunohiostchemistry)
Formalin-fixed, paraffin-embedded human Melanoma stained with Topo I, MT Monoclonal Antibody (TOP1MT/488).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Gallbladder stained with Topo I, MT Monoclonal Antibody (TOP1MT/488).

ADDITIONAL INFORMATION

References	Zhang, H., Barcel-, J.M., Lee, B., Kohlhagen, G., Zimonjic, D.B., Popescu, N.C. and Pommier, Y. 2001. Human mitochondrial topoisomerase I. Proc. Natl. Acad. Sci. USA 98: 10608-10613. Zhang, H., Meng, L.H. and Pommier, Y. 2007. Mitochondrial topoisomerases and alternative splicing of the human TOP1mt gene. 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 #	NM_001258446.1
UniProt Accession #	Q969P6; Q86ST4; Q86V82; B7ZAR5; E7ES89
Molecular Weight	70kDa
NCBI Official Full Name	DNA topoisomerase I, mitochondrial isoform 2
NCBI Official Synonym Full Names	topoisomerase (DNA) 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-488-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/62691>