

Rabbit Topoisomerase I, Mitochondrial (TOP1MT) Monoclonal Antibody | anti-TOP1MT antibody

Topoisomerase I, Mitochondrial (TOP1MT)

CATALOG # AAA214721	HOST Rabbit	REACTIVITY Human. Others not known.	APPLICATIONS Immunohistochemistry
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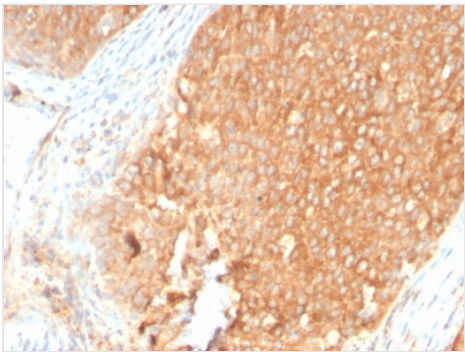
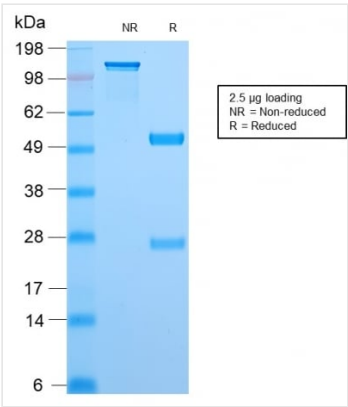
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG
Clone Number	TOP1MT/2883R
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)
Immunogen	Recombinant full-length human TOP1MT protein
Positive Control	A431 Cells. Heart, Skeletal Muscle, Brain or Fetal Liver.
Cellular Localization	Cytoplasmic (Mitochondria)
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



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Pancreas stained with Topo I Rabbit Recombinant Monoclonal Antibody (TOP1MT/2883R).

SDS-PAGE
SDS-PAGE Analysis Purified Topo I Rabbit Recombinant Monoclonal Antibody (TOP1MT/2883R). Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-TOP1MT antibody	Recombinant Rabbit Monoclonal Antibody
References	Zhang, H., et al. Biochimie 89: 474-481.; Zhang, H., et al. Proc. Natl. Acad. Sci. USA 98: 10608-10613.

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	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

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.