

36-1059: Monoclonal Antibody to Topoisomerase (DNA) I, Mitochondrial (TOP1MT)(Clone : TOP1MT/488)

Clonality :	Monoclonal
Clone Name :	TOP1MT/488
Application :	FACS,IF,WB,IHC
Reactivity :	Human
Gene :	TOP1MT
Gene ID :	116447
Uniprot ID :	Q969P6
Format :	Purified
Alternative Name :	TOP1MT
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant full-length human TOP1MT protein

Description

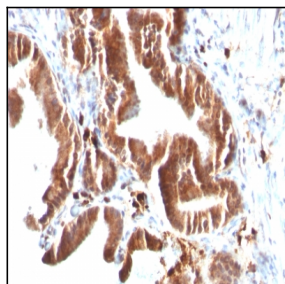
DNA topoisomerases are nuclear enzymes that regulate the topological structure of DNA in eukaryotic cells by transiently breaking and rejoining DNA strands. Due to their roles in DNA replication, recombination, and transcription, DNA topoisomerases have been identified as targets of numerous anticancer 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.

Product Info

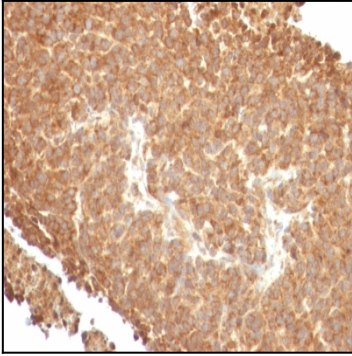
Amount :	100 µg
Purification :	Affinity Chromatography
Content :	100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

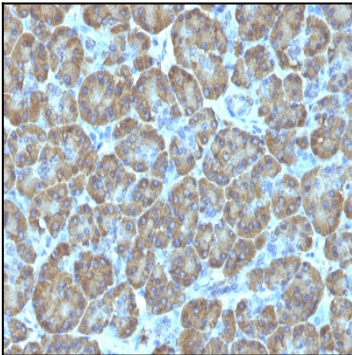
Flow Cytometry (0.5-1ug/million cells); ,Immunofluorescence (0.5-1ug/ml); Western Blot (0.5-2ug/ml);,Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes),



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



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



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