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

Clone Name: Monoclonal
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

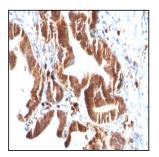
toxic.

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),

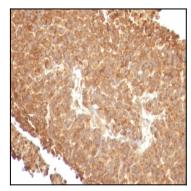


Formalin-fixed, paraffin-embedded human Gallbladder stained with Topo I, MT Monoclonal Antibody (TOP1MT/488).

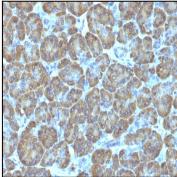


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Formalin-fixed, paraffin-embedded human Melanoma stained with Topo I, MT Monoclonal Antibody (TOP1MT/488).



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