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Datasheet for ABIN7126224

Recombinant anti-TOP1MT antibody

Overview

Quantity:	100 µg
Target:	TOP1MT
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This TOP1MT antibody is un-conjugated
Application:	Immunofluorescence (IF), Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Recombinant full-length human TOP1MT protein
Isotype:	IgG1
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.

Product Details

Cross-Reactivity (Details): Human.

Purification: 1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target: TOP1MT

Alternative Name: TOP1MT ([TOP1MT Products](#))

Background: DNA topoisomerase I, TOP1MT, Topoisomerase I mitochondrial, Type IB
Topoisomerase,Topoisomerase I, Mitochondrial (TOP1MT)
Cellular localisation: Cytoplasm (Mitochondria)

Molecular Weight: 70kDa

Gene ID: 116447, 528574

UniProt: [Q969P6](#)

Application Details

Application Notes: Known_Application: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (0.5-1 µg/mL), Western Blot (0.5-2 µg/mL),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Positive_Control: MCF-7 or A431 cells. Jurkat cell lysate. Human heart, skeletal muscle, brain or fetal liver tissue.

Restrictions: For Research Use only

Handling

Concentration: 1.0 mg/mL

Buffer: Prepared in 10 mM PBS, WITHOUT BSA and Azide.

Preservative: Azide free

Storage: -20 °C,-80 °C

Storage Comment: Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.

Handling

Expiry Date: 24 months