Datasheet for ABIN6938634
Recombinant anti-TOP1MT antibody


## Overview

| Quantity: | $100 \mu \mathrm{~g}$ |
| :--- | :--- |
| Target: | TOP1MT |
| Reactivity: | Human |
| Host: | Rabbit |
| Antibody Type: | Recombinant Antibody |
| Clonality: | Monoclonal |
| Conjugate: | This TOP1MT antibody is un-conjugated |
| Application: | Immunohistochemistry (Formalin-fixed Sections) (IHC (f)) |

Product Details

| Immunogen: | Recombinant full-length human TOP1MT protein |
| :---: | :---: |
| Clone: | TOP1MT-2883R |
| Isotype: | IgG |
| 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: | $1.0 \mathrm{mg} / \mathrm{ml}$ of Ab purified from Bioreactor by Protein $\mathrm{A} / \mathrm{G}$. |
| Target Details |  |


| Target: | TOP1MT |
| :--- | :--- |
| Alternative Name: | TOP1MT (TOP1MT Products) |
| Background: | DNA topoisomerase I, TOP1MT, Topoisomerase I mitochondrial, Type IB <br> Topoisomerase,Topoisomerase I, Mitochondrial (TOP1MT) <br> Cellular localisation: Cytoplasmic (Mitochondria) |
| Molecular Weight: | 70kDa |
| Gene ID: | 116447,528574 |
| UniProt: | Q969P6 |

## Application Details

| Application Notes: | Known_Application: Immunohistochemistry (Formalin-fixed) (1-2 $\mu \mathrm{g} / \mathrm{mL}$ 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\&degC followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined. <br> Positive_Control: A431 cells. Heart, Skeletal muscle, brain or fetal liver. |
| :---: | :---: |
| Restrictions: | For Research Use only |
| Handling |  |
| Concentration: | $1.0 \mathrm{mg} / \mathrm{mL}$ |
| Buffer: | Prepared in 10 mM PBS , WITHOUT BSA and Azide. |
| Preservative: | Azide free |
| Storage: | $-20^{\circ} \mathrm{C},-80^{\circ} \mathrm{C}$ |
| Storage Comment: | Antibody without azide store at -20 to -80 ${ }^{\circ} \mathrm{C}$. Antibody is stable for 24 months. Non-hazardous. |
| Expiry Date: | 24 months |

