



# TOP1M Monoclonal Antibody

<b>Catalog No</b>	YP-mAb-05525
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB
<b>Gene Name</b>	TOP1MT
<b>Protein Name</b>	DNA topoisomerase I, mitochondrial (TOP1mt) (EC 5.99.1.2)
<b>Immunogen</b>	Synthesized peptide derived from part region of human protein
<b>Specificity</b>	TOP1M Monoclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-1:2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	66kD
<b>Cell Pathway</b>	Mitochondrion .
<b>Tissue Specificity</b>	Ubiquitous; highest in skeletal muscle, heart, brain and fetal liver.
<b>Function</b>	catalytic activity:ATP-independent breakage of single-stranded DNA, followed by passage and rejoining.,cofactor:Divalent metal ions (calcium or magnesium).,function:Relieves DNA strain that arise during duplication of mitochondrial DNA.,miscellaneous:When a topoisomerase transiently breaks a DNA backbone bond, it simultaneously forms a protein-DNA link, in which a tyrosyl oxygen in the enzyme is joined to a DNA phosphorus at one end of the enzyme-severed DNA strand.,similarity:Belongs to the eukaryotic type I topoisomerase family.,tissue specificity:Ubiquitous; highest in skeletal muscle, heart, brain and fetal liver.,
<b>Background</b>	This gene encodes a mitochondrial DNA topoisomerase that plays a role in the modification of DNA topology. The encoded protein is a type IB topoisomerase and catalyzes the transient breaking and rejoining of DNA to relieve tension and DNA supercoiling generated in the mitochondrial genome during replication and transcription. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**