

Product datasheet

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ARG56183 anti-TOP1MT antibody [TOP1MT/488]

Package: 50 μg Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [TOP1MT/488] recognizes TOP1MT

Tested Reactivity Hu

Tested Application FACS, IHC-P, WB

Host Mouse

Clonality Monoclonal
Clone TOP1MT/488

Isotype IgG2b, kappa
Target Name TOP1MT

Species Human

Immunogen Recombinant full-length human TOP1MT protein.

Conjugation Un-conjugated

Alternate Names TOP1mt; EC 5.99.1.2; DNA topoisomerase I, mitochondrial

Application Instructions

Application table	Application	Dilution
	FACS	1 - 2 μg/10^6 cells
	IHC-P	2 - 5 μg/ml
	WB	1 - 2 μg/ml
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Citrate buffer (pH 6.0) for 10-20 min, followed by cooling at RT for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Jurkat	
Observed Size	~ 57 kDa	

Properties

Form Liquid

Purification Purification with Protein G.

Buffer PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA.

Preservative 0.05% Sodium azide

Stabilizer 0.1 mg/ml BSA

Concentration 0.2 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GeneID: 116447 Human

Swiss-port # Q969P6 Human

Gene Symbol TOP1MT

Gene Full Name topoisomerase (DNA) I, mitochondrial

Background 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]

Function Releases the supercoiling and torsional tension of DNA introduced during duplication of mitochondrial

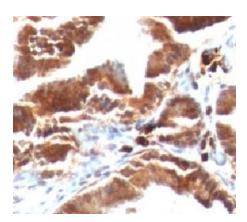
DNA by transiently cleaving and rejoining one strand of the DNA duplex. Introduces a single-strand break via transesterification at a target site in duplex DNA. The scissile phosphodiester is attacked by the catalytic tyrosine of the enzyme, resulting in the formation of a DNA-(3'-phosphotyrosyl)-enzyme intermediate and the expulsion of a 5'-OH DNA strand. The free DNA strand then undergoes passage around the unbroken strand thus removing DNA supercoils. Finally, in the religation step, the DNA 5'-OH attacks the covalent intermediate to expel the active-site tyrosine and restore the DNA

phosphodiester backbone (By similarity). [UniProt]

Calculated Mw 70 kDa

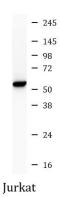
Cellular Localization Cytoplasmic (mitochondria)

Images



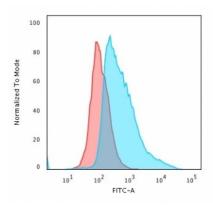
ARG56183 anti-TOP1MT antibody [TOP1MT/488] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human gallbladder stained with ARG56183 anti-TOP1MT antibody [TOP1MT/488].



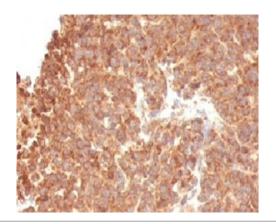
ARG56183 anti-TOP1MT antibody [TOP1MT/488] WB image

Western blot: Jurkat cell lysate stained with ARG56183 anti-TOP1MT antibody [TOP1MT/488].



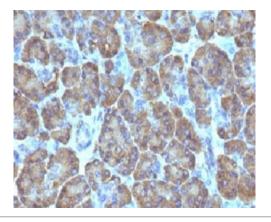
ARG56183 anti-TOP1MT antibody [TOP1MT/488] FACS image

Flow Cytometry: PFA-fixed MCF7 cells stained with ARG56183 anti-TOP1MT antibody [TOP1MT/488] (blue); Isotype control (red).



ARG56183 anti-TOP1MT antibody [TOP1MT/488] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human melanoma stained with ARG56183 anti-TOP1MT antibody [TOP1MT/488].



ARG56183 anti-TOP1MT antibody [TOP1MT/488] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human pancreas stained with ARG56183 anti-TOP1MT antibody [TOP1MT/488].