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Datasheet for ABIN4914765

anti-Topoisomerase I antibody

1 Image

Overview

Quantity:	100 µL
Target:	Topoisomerase I (TOP1)
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Topoisomerase I antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Immunogen:	This TOP1 antibody is generated from a mouse immunized with a recombinant protein from the N-terminal region of human TOP1.
Clone:	1C6
Isotype:	IgG1
Cross-Reactivity:	Human, Rat
Purification:	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Target Details

Target:	Topoisomerase I (TOP1)
Alternative Name:	TOP1 (TOP1 Products)

Target Details

Target Type: Viral Protein

Background: Synonyms: TOPI, DNA topoisomerase 1, DNA topoisomerase I, TOP1
Background: Releases the supercoiling and torsional tension of DNA introduced during the DNA replication and transcription 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). Regulates the alternative splicing of tissue factor (F3) pre-mRNA in endothelial cells. Involved in the circadian transcription of the core circadian clock component ARNTL/BMAL1 by altering the chromatin structure around the ROR response elements (ROREs) on the ARNTL/BMAL1 promoter.

Gene ID: 7150

UniProt: [P11387](#)

Pathways: [Caspase Cascade in Apoptosis, Stem Cell Maintenance](#)

Application Details

Application Notes: WB 1:300-5000
FCM 1:20-100

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.5 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

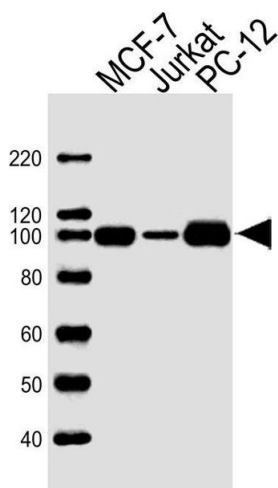
Storage: 4 °C, -20 °C

Handling

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Images



Western Blotting

Image 1. Lane 1: MCF-7 Cell lysates, Lane 2: Sample Tissue/Cell lysates, Lane 3: PC-12 Cell lysates, probed with TOP1 (1291CT875.142.166) Monoclonal Antibody, unconjugated (bsm-51396M) at 1:1000 overnight at 4°C followed by a conjugated secondary antibody for 60 minutes at 37°C.