

Mouse Anti-Topoisomerase II alpha [Ki-S1]: MC0575, MC0575RTU7

Intended Use: For Research Use Only

Description: Topoisomerase II α plays important roles in synthesis and transcription of DNA as well as chromosomal segregation during mitosis. It is reported to be a sensitive and specific marker of late S-, G2- & M-phases in transformed and developmentally regulated normal cells. Topoisomerase II α is also implicated in drug resistance of tumor cells.

Specifications

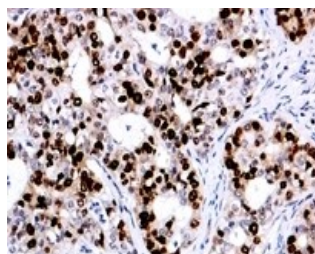
Clone: Ki-S1
 Source: Mouse
 Isotype: IgG2a/k
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.4, containing BSA and \leq 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
Topoisomerase II alpha Concentrated	MC0575	1 ml
Topoisomerase II alpha Prediluted	MC0575RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Breast cancer
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH 6.0 or EDTA pH 8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE Human breast carcinoma tissue stained with anti-TOP2A using DAB

References:

1. Topoisomerase 2 Alpha Cooperates with Androgen Receptor to Contribute to Prostate Cancer Progression. Schaefer-Klein JL, et al. PLoS One 10:e0142327, 2015.
2. Brd4 bridges the transcriptional regulators, Aire and P-TEFb, to promote elongation of peripheral-tissue antigen transcripts in thymic stromal cells. Yoshida H, et al. Proc Natl Acad Sci U S A 112:E4448-57, 2015.
3. Activity of quinolone CP-115,955 against bacterial and human type II topoisomerases is mediated by different interactions. Aldred KJ, et al. Biochemistry 54:1278-86, 2015.
4. Disclosure of a structural milieu for the proximity ligation reveals the elusive nature of an active chromatin hub. Gavrillov AA, et al. Nucleic Acids Res 41:3563-75, 2013.
5. Spt6 levels are modulated by PAAF1 and proteasome to regulate the HIV-1 LTR. Nakamura M, et al. Nakamura M, et al. Retrovirology 9:13, 2012.

Doc. 100-MC0575
Rev. A