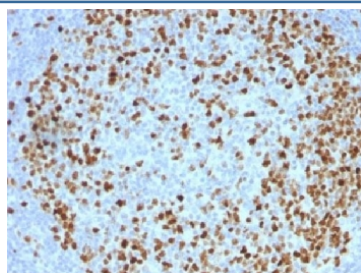


TOP2A Antibody / Topoisomerase II alpha [clone TOP2A/1362] (V3442)

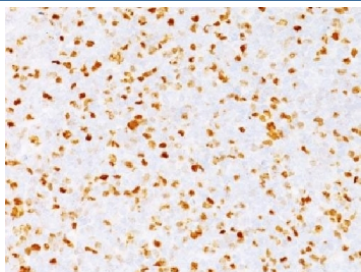
Catalog No.	Formulation	Size
V3442-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3442-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3442SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

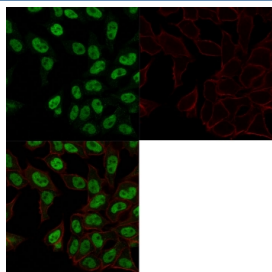
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	TOP2A/1362
Purity	Protein G affinity chromatography
UniProt	P11388
Gene ID	7153
Localization	Nuclear
Applications	Western Blot : 1-2ug/ml Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This TOP2A antibody is available for research use only.



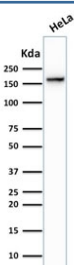
IHC testing of FFPE human tonsil with TOP2A antibody (clone TOP2A/1362). Required HIER: boil sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE human bladder carcinoma with TOP2A antibody (clone TOP2A/1362). Required HIER: boil sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



Immunofluorescent staining of PFA-fixed human HeLa cells with TOP2A antibody (green, clone TOP2A/1362) and Phalloidin (red).

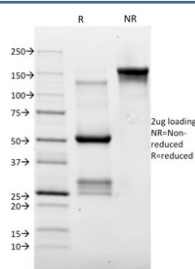


Western blot testing of human HeLa cell lysate with TOP2A antibody (clone TOP2A/1362). Expected molecular weight ~174 kDa.

Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using TOP2A antibody (clone TOP2A/1362). These results demonstrate the foremost specificity of the TOP2A/1362 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free TOP2A antibody (clone TOP2A/1362) as confirmation of integrity and purity.

Description

This mAb recognizes an ~170kDa protein which is identified as Topoisomerase IIa, and shows no cross-reaction with Topoisomerase IIb or I. Topo IIa 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. Topo IIa is also implicated in drug resistance of tumor cells.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the TOP2A antibody to be titrated up or down for optimal performance.

Immunogen

Amino acids 1352-1493 from the human protein were used as the immunogen for this TOP2A antibody.

Storage

Store the TOP2A antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (1)