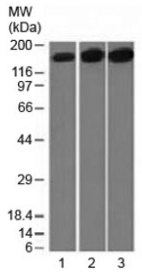
Topoisomerase II alpha Antibody / TOP2A [clone TOP2A/1361] (V3443)

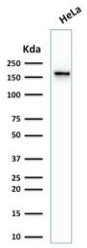
Catalog No.	Formulation	Size
V3443-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3443-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3443SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

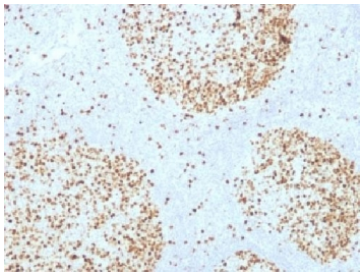
Species Reactivity	Human, Mouse
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	TOP2A/1361
Purity	Protein G affinity chromatography
UniProt	P11388
Gene ID	7153
Localization	Nuclear
Applications	Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Topoisomerase II alpha antibody is available for research use only.



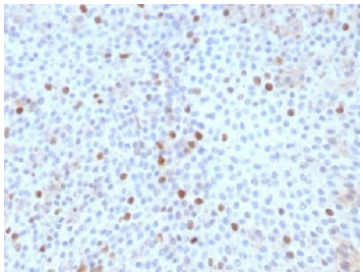
Western blot testing of 1) human HepG2, 2) HeLa and 3) mouse NIH3T3 cell lysate with Topoisomerase II alpha antibody (clone TOP2A/1361). Expected molecular weight ~174 kDa.



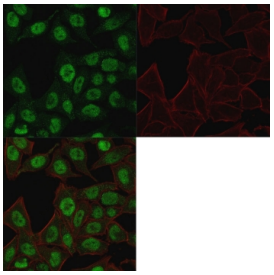
Western blot testing of human HeLa cell lysate with Topoisomerase II alpha antibody (clone TOP2A/1361). Expected molecular weight ~174 kDa.



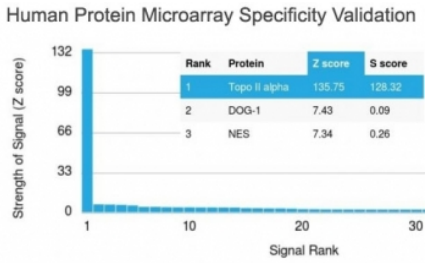
IHC testing of FFPE human tonsil with Topoisomerase II alpha antibody (clone TOP2A/1361). Required HIER: boil sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



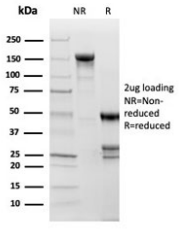
IHC testing of FFPE human bladder carcinoma with Topoisomerase II alpha antibody (clone TOP2A/1361). Required HIER: boil sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



Immunofluorescent staining of PFA-fixed human HeLa cells with Topoisomerase II alpha antibody (green, clone TOP2A/1361) and Phalloidin (red).



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Topoisomerase II alpha antibody (clone TOP2A/1361). These results demonstrate the foremost specificity of the TOP2A/1361 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 Topoisomerase II alpha antibody (clone TOP2A/1361) 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 Topoisomerase II alpha antibody to be titered up or down for optimal performance.

Immunogen

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

Storage

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

References (1)