

36-3288: Anti-Topoisomerase II alpha (Proliferation & Drug-Resistance Marker) Monoclonal Antibody(Clone: TOP2A/1362)

Clonality :	Monoclonal
Clone Name :	TOP2A/1362
Application :	WB,IF,IHC
Reactivity :	Human
Gene :	TOP2A
Gene ID :	7153
Uniprot ID :	P11388
Alternative Name :	ATP hydrolyzing DNA topoisomerase II alfa; DNA gyrase; DNA topoisomerase (ATP hydrolyzing); DNA topoisomerase 2 alpha; DNA topoisomerase II 170kD; DNA topoisomerase II alpha; DNA Topoisomerase2; TOP2A; Topoisomerase DNA II alpha 170kDa; TP2A
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant fragment of human Topoisomerase II alpha (around aa1352-1493) (exact sequence is proprietary)

Description

It recognizes a 170kDa protein, which is identified as topoisomerase II is also implicated in drug resistance of tumor cells and has been shown to be over-expressed in many human cancers. Decreased expression of Topo IIa is the predominant mechanism of resistance to several chemotherapeutic agents.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Western Blot (1-2ug/ml); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

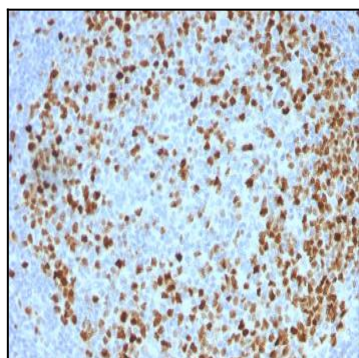


Fig. 1: Formalin-fixed, paraffin-embedded human Tonsil stained with Topoisomerase II alpha Monoclonal Antibody (TOP2A/1362).

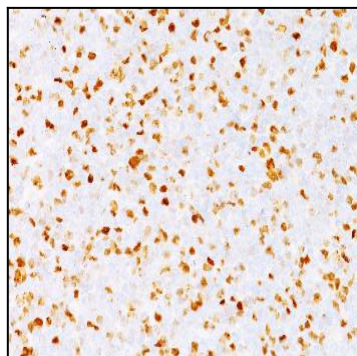


Fig. 2: Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with Topoisomerase II alpha Monoclonal Antibody (TOP2A/1362).

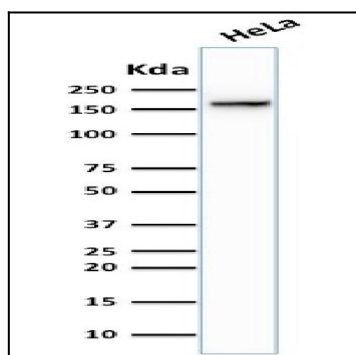


Fig. 3: Western Blot Analysis of human HeLa cell lysate using Topoisomerase II alpha Monoclonal Antibody (TOP2A/1362).

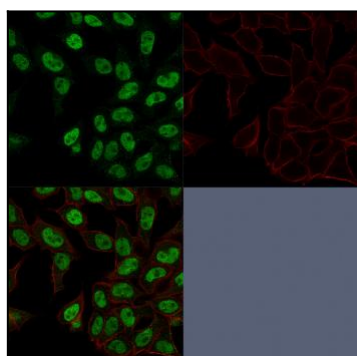


Fig. 4: Confocal Immunofluorescence image of HeLa cells using Topo II alpha, Monoclonal Antibody (TOP2A/1362). Green (CF488) and Phalloidin (Red) is used to label the nuclei.

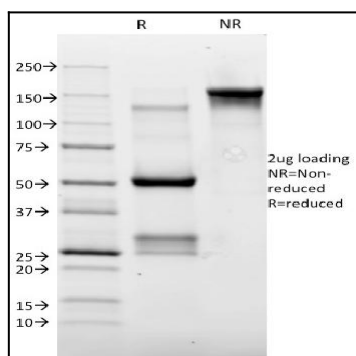


Fig. 5: SDS-PAGE Analysis Purified Topoisomerase II alpha Monoclonal Antibody (TOP2A/1362). Confirmation of Purity and Integrity of Antibody.

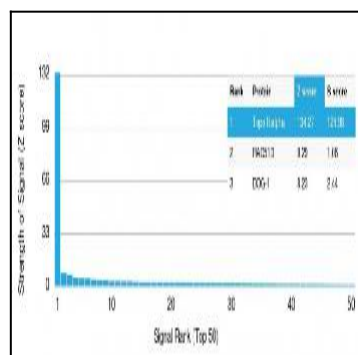


Fig. 6: Analysis of Protein Array containing more than 19,000 full-length human proteins using Topoisomerase II alpha Mouse Monoclonal Antibody (TOP2A/1362). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.