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36-3287: Anti-Topoisomerase II alpha (Proliferation & Drµg-Resistance Marker) Monoclonal Antibody(Clone: TOP2A/1361)

Clonality :	Monoclonal
Clone Name :	TOP2A/1361
Application :	IF,WB,IHC
Reactivity :	Human, Mouse
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 human Topoisomerase II alpha fragment (aa1352-1493)

Description

It recognizes a 170kDa protein, which is identified as topoisomerase II is also implicated in drÂµg 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

Immunofluorescence (1-2ug/ml); Western Blot (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&degC followed by cooling at RT for 20 minutes);

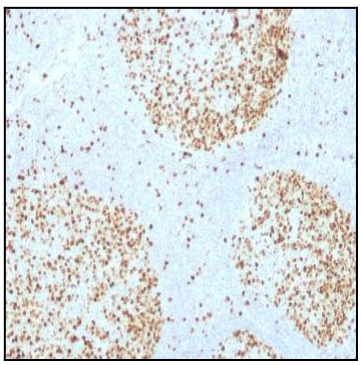

Fig. 1: Formalin-fixed, paraffin-embedded human Tonsil stained with Topoisomerase II alpha Monoclonal Antibody (TOP2A/1361).

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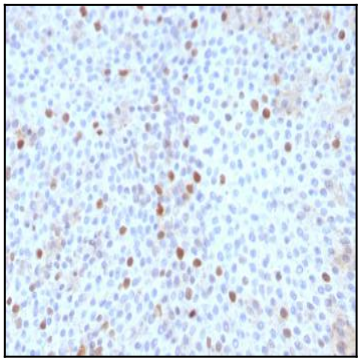

Fig. 2: Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with Topoisomerase II alpha Monoclonal Antibody (TOP2A/1361).

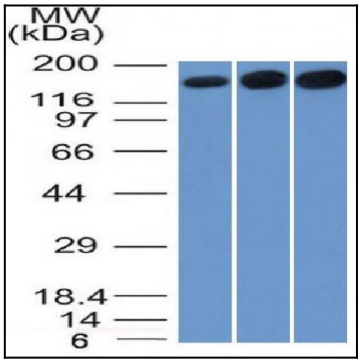

Fig. 3: Western Blot of HepG2, HeLa and 3T3 cell lysate using Topo II alpha, Monoclonal Antibody (TOP2A/1361).

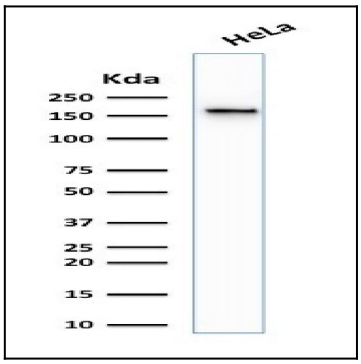

Fig. 4: Western Blot Analysis of human HeLa cell lysate using Topoisomerase II alpha, Monoclonal Antibody (TOP2A/1361).

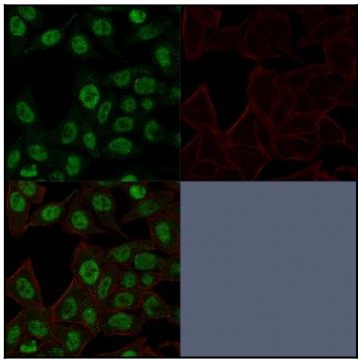

Fig. 5: Confocal Immunofluorescence image of HeLa cells using Topo II alpha, Monoclonal Antibody (TOP2A/1361). Green (CF488) and Phalloidin (Red) is used to label the nuclei.

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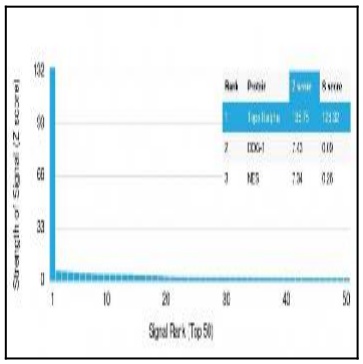

Fig. 6: Analysis of Protein Array containing more than 19,000 full-length human proteins using Topoisomerase II alpha Mouse Monoclonal Antibody (TOP2A/1361). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM 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 HuProtTM 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.