

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	TOP2A/1361
<b>Application :</b>	IF, WB, IHC
<b>Reactivity :</b>	Human, Mouse
<b>Gene :</b>	TOP2A
<b>Gene ID :</b>	7153
<b>Uniprot ID :</b>	P11388
<b>Alternative Name :</b>	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
<b>Isotype :</b>	Mouse IgG2b, kappa
<b>Immunogen Information :</b>	Recombinant human Topoisomerase II alpha fragment (aa1352-1493)

### 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

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	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.
<b>Storage condition :</b>	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);

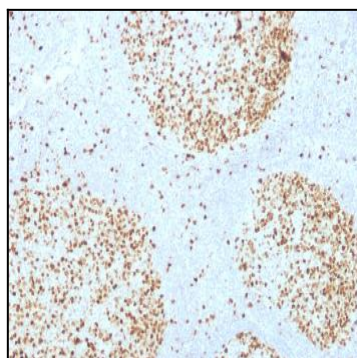


Fig. 1: Formalin-fixed, paraffin-embedded human Tonsil stained with Topoisomerase II alpha Monoclonal Antibody (TOP2A/1361).

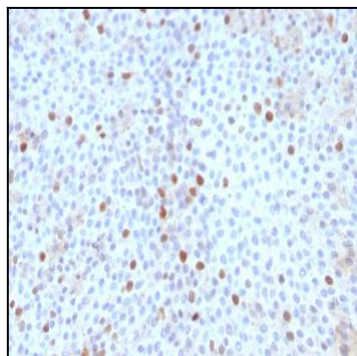


Fig. 2: Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with Topoisomerase II alpha Monoclonal Antibody (TOP2A/1361).

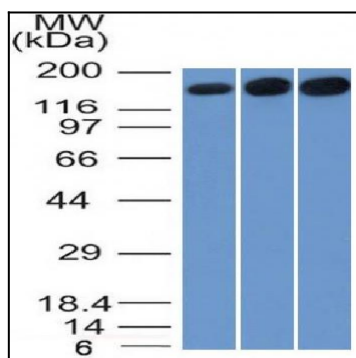


Fig. 3: Western Blot of HepG2, HeLa and 3T3 cell lysate using Topo II alpha, Monoclonal Antibody (TOP2A/1361).

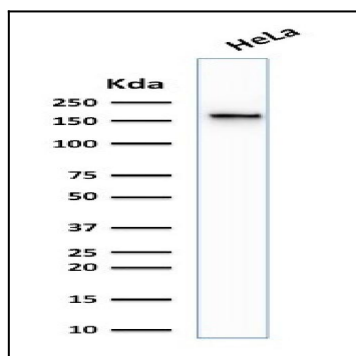


Fig. 4: Western Blot Analysis of human HeLa cell lysate using Topoisomerase II alpha, Monoclonal Antibody (TOP2A/1361).

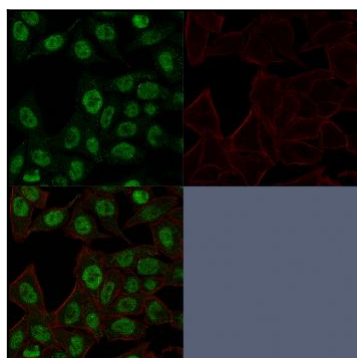


Fig. 5: Confocal Immunofluorescence image of HeLa cells using Topo II alpha, Monoclonal Antibody (TOP2A/1361). Green (CF488) and Phalloidin (Red) is used to label the nuclei.

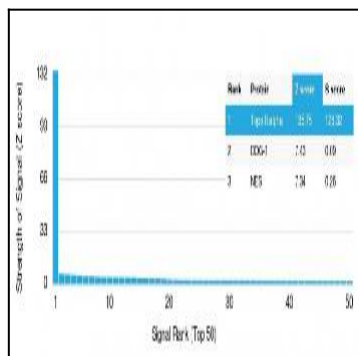


Fig. 6: Analysis of Protein Array containing more than 19,000 full-length human proteins using Topoisomerase II alpha Mouse Monoclonal Antibody (TOP2A/1361). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG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