

Topoisomerase II alpha (Proliferation & Drug-Resistance Marker) Antibody

Mouse Monoclonal Antibody [Clone TOP2A/1361]

Catalog No	Format	Size
7153-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7153-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7153-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

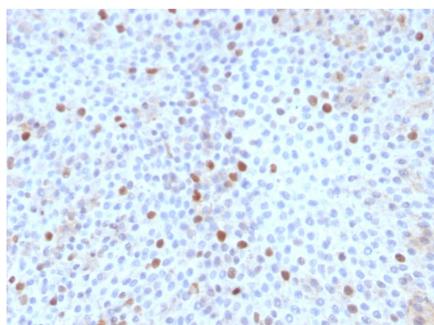
Applications	Tested Dillution	Note
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

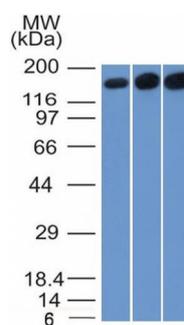
Clone	TOP2A/1361
Gene Name	TOP2A
Immunogen	Recombinant human Topoisomerase II alpha fragment (aa1352-1493)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	170kDa
Cellular Localization	Cytoplasm, Nucleolus, Nucleoplasm, Nucleus
Species Reactivity	Human, Mouse
Positive Control	HeLa cells. Tonsil.

*Optimal dilution for a specific application should be determined.

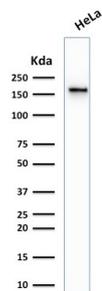
Product Images for Topoisomerase II alpha (Proliferation & Drug-Resistance Marker) Antibody



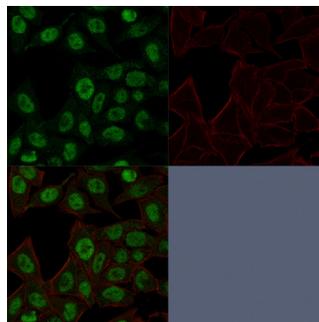
Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with Topoisomerase II alpha Monoclonal Antibody (TOP2A/1361).



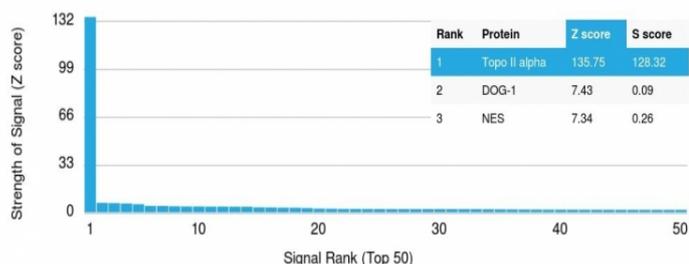
Western Blot of HepG2, HeLa and 3T3 cell lysate using Topo II alpha, Monoclonal Antibody (TOP2A/1361).



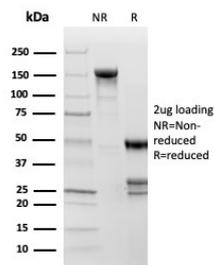
Western Blot Analysis of human HeLa cell lysate using Topoisomerase II alpha, Monoclonal Antibody (TOP2A/1361).



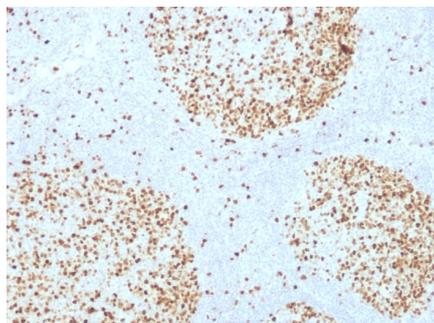
Confocal Immunofluorescence image of HeLa cells using Topo II alpha, Monoclonal Antibody (TOP2A/1361). Green (CF488) and Phalloidin (Red) is used to label the nuclei.



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 be 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.



SDS-PAGE Analysis Purified Topoisomerase II alpha, Monoclonal Antibody (TOP2A/1361). Confirmation of Purity and Integrity of Antibody.



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

Specificity & Comments

It recognizes a 170kDa protein, which is identified as topoisomerase II. It 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.

Supplied As

200ug/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 and Stability

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. No MSDS required.

Research Areas

Nuclear Marker

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.
