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

Mouse Monoclonal Antibody [Clone rTOP2A/8339]

Catalog No	Format	Size
7153-MSM11-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7153-MSM11-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7153-MSM11-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

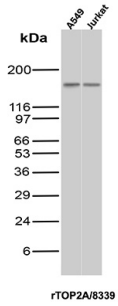
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

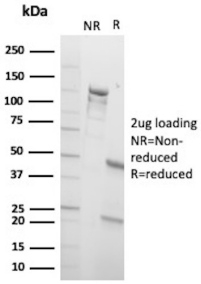
Clone	rTOP2A/8339
Immunogen	Recombinant fragment (around aa1352-1493) of the human Topoisomerase II alpha protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	174.38kDa
Cellular Localization	Cytoplasm, Nucleolus, Nucleoplasm, Nucleus
Species Reactivity	Human
Positive Control	HeLa or Jurkat cells. Human lymph node or tonsil. A549.

**Optimal dilution for a specific application should be determined.*

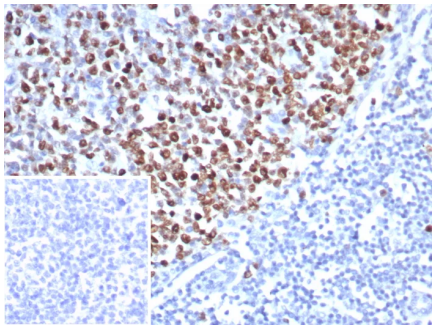
Product Images for Recombinant Topoisomerase II alpha (Proliferation & Drug-Resistance Marker) Antibody



Western Blot Analysis of A549 and Jurkat cell lysates using Topoisomerase II alpha Recombinant Mouse Monoclonal Antibody (rTOP2A/8339).



SDS-PAGE Analysis of Purified DNA topoisomerase 2-alpha Recombinant Mouse Monoclonal Antibody (rTOP2A/8339). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human tonsil stained with Topo II alpha Recombinant Mouse Monoclonal Antibody (rTOP2A/8339). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

It recognizes a 170kDa protein, which is identified as topoisomerase II?. It shows no cross-reaction with Topoisomerase II ? or I. Topo II ? 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 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.

Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. 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.

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.