

Product Datasheet

Topoisomerase II alpha Antibody / TOP2A (orb376645)

Catalog Number	orb376645
Description	This mAb recognizes a 170kDa protein which is identified as Topoisomerase IIa, and shows no cross-reaction with Topoisomerase IIb or I. Topo IIa 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 IIa is also implicated in drug resistance of tumor cells.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	IF, IHC-P, WB
Immunogen	Human recombinant partial protein (amino acids 1352-1493) was used as the immunogen for this Topoisomerase II alpha antibody.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the Topoisomerase II alpha antibody to be titrated up or down for optimal performance.1. Staining of FFPE tissue requires boiling sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Isotype	Mouse IgG2b, kappa

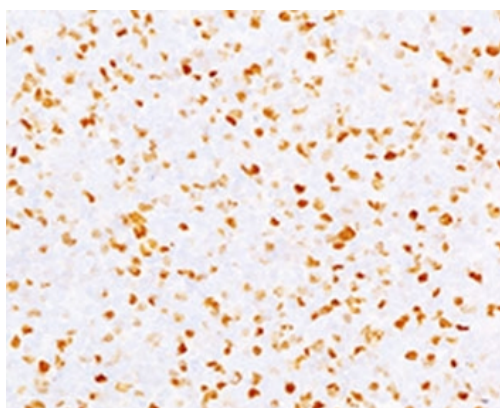
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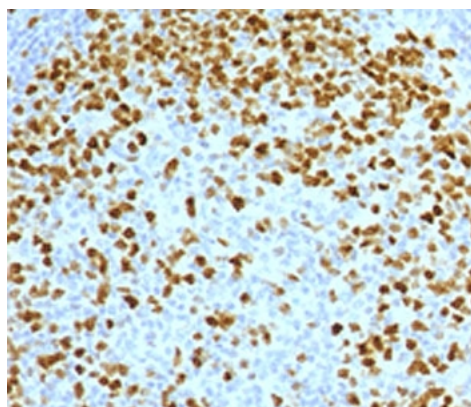
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Clonality	Monoclonal
Clone Number	TPM2A-2
Antibody Type	Primary Antibody
Hazard Information	This Topoisomerase II alpha antibody is available for research use only.
Dilution Range	Immunofluorescence: 1-2ug/ml, Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml (1)
Expiration Date	12 months from date of receipt.



IHC testing of FFPE human bladder carcinoma with Topoisomerase II alpha antibody (clone TPM2A-2).



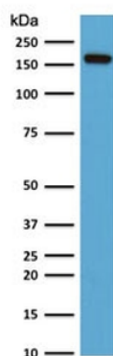
IHC testing of FFPE human tonsil with Topoisomerase II alpha antibody (clone TPM2A-2).

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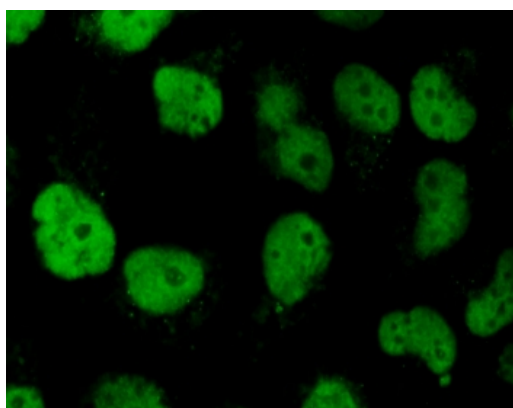
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Western blot testing of human HeLa cell lysate with Topoisomerase II alpha antibody (clone TPM2A-2). Expected molecular weight ~174 kDa.



Immunofluorescent staining of PFA-fixed human HeLa cells with Topoisomerase II alpha antibody (clone TPM2A-2).

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