[pThr1342]DNA-topoisomerase II α monoclonal antibody (3D4)

DNA-topoisomerase II, also known as Topo II or Top 2, is a multifunctional nuclear enzyme required during DNA replication, chromosome disjunction at mitosis, and other DNA-related activities because of its ability to alter DNA supercoiling. In mammalian cells, Topo II consists of two isozymes, Topo II-alpha (170kDa) and Topo II-beta (180kDa) and expression and localization of each isoform are distinct and stage specific during the cell cycle. Topo II-beta is expressed constitutively throughout the cell cycle, whereas the expression of Topo II-alpha is cell cycle-regulated, peaking in G2 to M phase and declining to a minimal level at the end of M phase. DNA-topoisomerase II is the target of some of the most active drugs used in chemotherapy and has been shown to have a critical role in neural development.

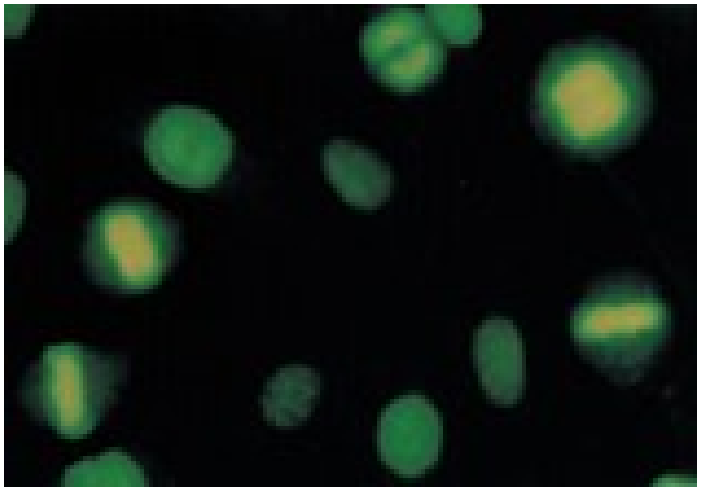
This antibody is covered by our Worry-Free Guarantee.

Manuals, SDS & CofA

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Western blot analysis of Jurkat cells using DNA-Topoisomerase IIa (pThr1342) mAb (3D4).



Immunocytochemistry analysis of human HEp-2 cells stained with DNA-Topoisomerase IIa (pThr1342) mAb (3D4).

Handling & Storage

Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status RUO - Research Use Only

Product Details

Application	ICC, WB
Application Notes	Detects a band of ~170kDa by Western blot.
Clone	3D4
Formulation	Liquid. In PBS, pH 7.2, containing 50% glycerol.
Host	Mouse
Immunogen	Synthetic peptide corresponding to a portion of human Topoisomerase IIα phosphorylated at Tyr1342.
Isotype	IgG1
Purity Detail	Protein A affinity purified.
Recommendation Dilutions/Conditions	Immunocytochemistry (10µg/ml)Western Blot (1-10µg/ml, colorimetric)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application.
Species Reactivity	Human
UniProt ID	P11388 (α isozyme), Q02880 (β isozyme)
Worry-free Guarantee	**This antibody is covered by our Worry-Free Guarantee .**

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