# [pThr1342]DNAtopoisomerase 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.

## **Ordering Information**

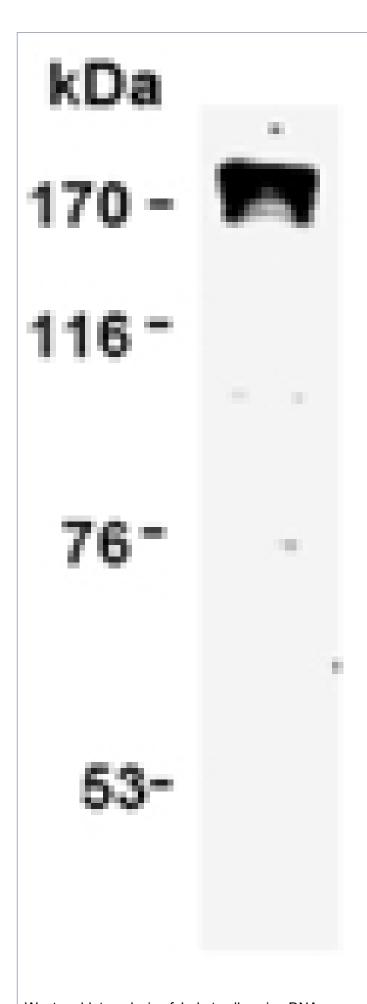
**Order Online** »

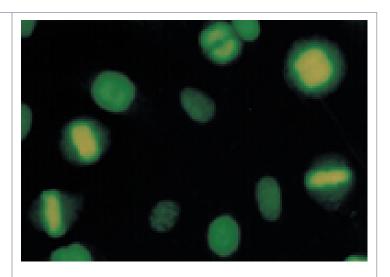
ADI-KAM-CC220-E

100µg

Manuals, SDS & CofA

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

Western blot analysis of Jurkat cells using 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.

lgG1

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)

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European Sales Office ENZO LIFE SCIENCES (ELS) AG Phone: +41 61 926 8989 infoeu@enzolifesciences.com Belgium, The Netherlands & Luxembourg Phone: +32 3 466 0420 infobe@enzolifesciences.com

France
Phone: +33 472 440 655
infofr@enzolifesciences.com

Germany Phone: +49 7621 5500 526 infode@enzolifesciences.com UK & Ireland
Phone (UK customers):
0845 601 1488
Phone: +44 1392 825900
infouk@enzolifesciences.com