DNA-topoisomerase II α monoclonal antibody (1C5)

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.

Citations: 4 View Online »

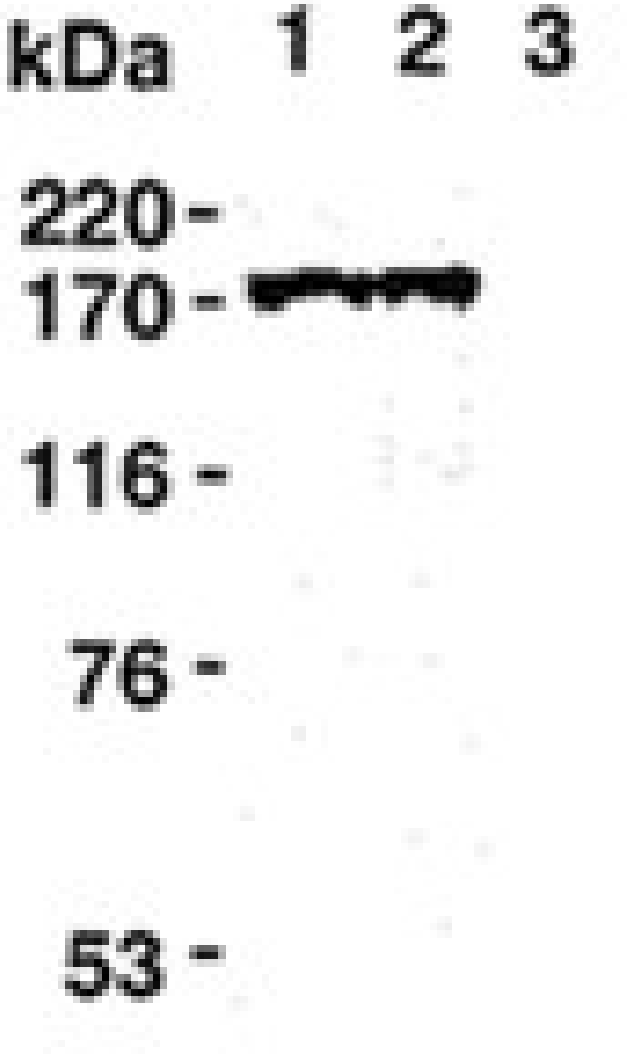
Ordering Information

Order Online »

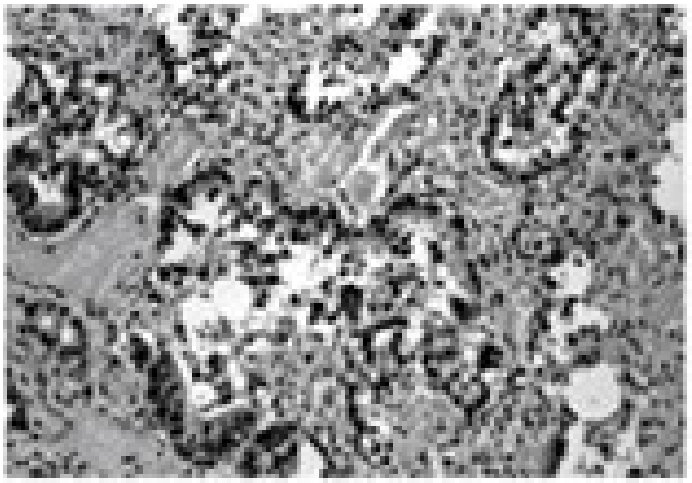
ADI-KAM-CC210-E	100µg

Manuals, SDS & CofA

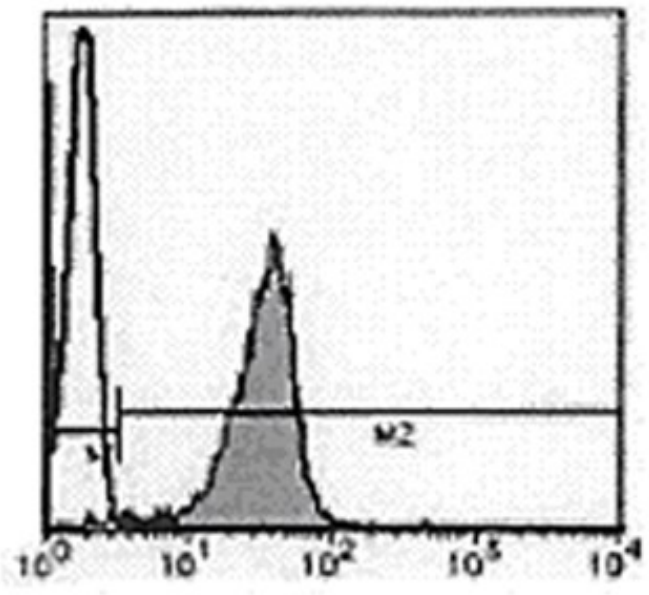
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Western blot analysis of Jurkat cell lysate, probed with DNA-Topoisomerase IIa mAb (1C5)



Immunohistochemistry analysis of nuclear staining of colon cancer section using DNA-Topoisomerase IIa mAb (1C5)



Flow cytometry analysis of DNA-Topoisomerase IIa expression in Jurkat. Open histogram indicates reaction of isotypic control to the cells. Shaded histogram indicates the reaction of DNA-Topoisomerase IIa to the cells.

Handling & Storage

Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status RUO - Research Use Only

Product Details

Application	Flow Cytometry, ICC, IHC, IP, WB
Application Notes	Detects a band of 170kDa by Western blot.
Clone	1C5
Formulation	Liquid. In PBS, pH 7.2, containing 50% glycerol.
Host	Mouse
Immunogen	Recombinant human DNA-topoisomerase IIα (C-terminal fragment).
Isotype	IgG2a
Purity Detail	Protein A affinity purified.
Recommendation Dilutions/Conditions	Flow Cytometry (0.1-1.0µg/ml)Immunocytochemistry (1-10µg/ml)Immunohistochemistry (1-5µg/ml)Immunoprecipitation (1-10µg/ml, 200-300ml cell extract)Western Blot (0.1-0.5µg/ml, ECL)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
Worry-free Guarantee	**This antibody is covered by our Worry-Free Guarantee**

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