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**Topoisomerase II alpha (ZR94)**  
Rabbit Polyclonal Antibody

**Host:** Rabbit  
**Specificity:** Human  
**Immunogen:** Synthetic peptide corresponding to Topo II  $\alpha$  residues within aa1431-1531 of Topo II  $\alpha$   
**Ig Class:** IgG  
**Storage:** Store at 2-8°C for up to 2 years for concentrate form and 18 months for predilute form.

**Specifications:** Topoisomerase II alpha (ZR94) Rabbit Polyclonal primary antibody detects Topoisomerase II alpha protein in formalin-fixed, paraffin-embedded samples by immunohistochemical (IHC) staining.

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. Retrieval conditions: Pretreatment of deparaffinized samples via heat-induced epitope retrieval is recommended. Detection method: Polymer anti-mouse/rabbit Ig detection system. Working dilution: 1:100-200. Positive Control: sample known to contain Topoisomerase II alpha protein.

Localization: Nucleus.

**Intended Use:** Research Use Only (RUO). This antibody is not for diagnostic use.

**Description:** The topoisomerase II- $\alpha$  isoform is a 170 kDa nuclear protein and plays an important role in DNA synthesis and RNA transcription, as well as chromosomal segregation during mitosis. Topoisomerase II- $\alpha$  is reported to be a sensitive and specific marker of late S-, G2- and M-phases in transformed and developmentally regulated normal cells and has been shown to be over-expressed in many human cancers. Decreased expression of Topoisomerase II- $\alpha$  is the predominant mechanism of resistance to several chemotherapeutic agents.

**Supplied As:** Purified antibody in Tris-HCl pH 7.4 buffer containing stabilizing proteins (including < 1% Bovine Serum Albumin) and < 0.1% ProClin by volume.

**References:**

1. Chung, T.D., et al. 1989. Proc. Natl. Acad. Sci USA 86: 9431-9435.
2. Ali, Yousaf and Shafida Abd Hamid. 2015. Tumor Biol. 37 (1).



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**Z2404RL-R/ Z2404RS-R/ Z2404RT-R/ Z2404RP-R (1.0ml Concentrate/ 0.5ml Con./ 0.1ml Con./ 7ml Pre-dil)**

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(research  
use only)



(lot number)



(catalogue  
number)



(expiry date)



(temperature  
limit)



(consult  
Instructions  
for Use)