

Topo II α (Q14) polyclonal antibody

Catalog: BS3010

Host: Rabbit

Reactivity: Human

BackGround:

DNA topoisomerase I and II (Topo I and Topo II) are nuclear enzymes that regulate the topological structure of DNA in eukaryotic cells by transiently breaking and re-joining DNA strands. Eukaryotic topoisomerases are capable of relaxing both positive and negative supercoils, whereas prokaryotic topoisomerases relax only negative supercoils. DNA topoisomerases play a role in DNA replication, recombination and transcription and have been identified as targets of numerous anticancer drugs. Topo I, a ubiquitously expressed, soluble enzyme, acts by introducing a transient break in one strand of DNA, while Topo II acts by making a transient double-strand break. Topo II is encoded by two different genes to generate two distinct isoforms that are designated Topo II α and Topo II β .

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 174 kDa

Swiss-Prot:

P11388

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC/IF: 1:50~1:200

IP: 1:50~1:200

Storage&Stability:

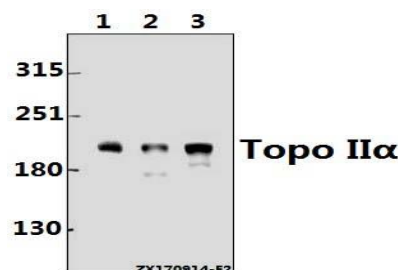
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Topo II α (Q14) polyclonal antibody detects endogenous

levels of Topo II α protein.

DATA:

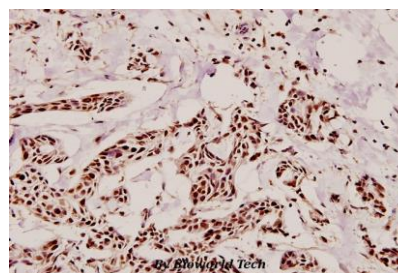


Western blot (WB) analysis of Topo II α (Q14) pAb at 1:1000 dilution

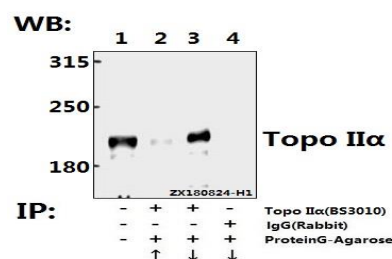
Lane1:SGC7901 whole cell lysate(40ug)

Lane2:PC3 whole cell lysate(20ug)

Lane3:A549 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of Topo II α (Q14) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.



Immunoprecipitation of HepG2 cell lysate using Topo II α (Q14) pAb (Sephadex Bead Conjugate) #BD0048 (lane 2 and lane 3) and Nonspecific IgG Control (Sephadex Bead Conjugate) #BD0048 (lane 4). Lane 1 is 30% input. The western blot was probed using Topo II α (Q14) #BS3010. “↑” (supernatant); “↓” (deposition)

Note:

For research use only, not for use in diagnostic procedure.

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