Topo IIα (Q14) polyclonal antibody

Catalog: BCP01658 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 rejoining 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 IIα and Topo IIβ.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

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

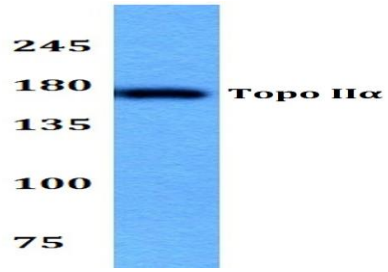
Storage&Stability:

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

Specificity:

Topo IIα (Q14) polyclonal antibody detects endogenous levels of Topo IIα protein.

DATA:

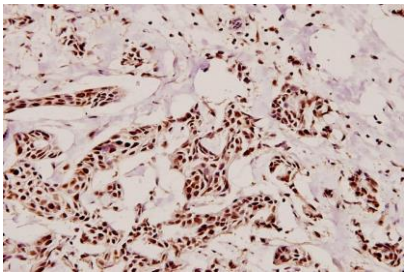


Western blot (WB) analysis of Topo IIα (Q14) pAb at 1:1000 dilution

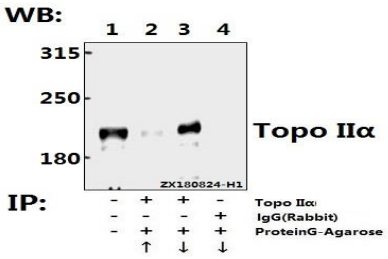
Lane1:SGC7901 whole cell lysate(40ug)

Lane2:PC3 whole cell lysate(20ug)

Lane3:A549 whole cell lysate(40ug)



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



Immunoprecipitation of HepG2 cell lysate usingTopo IIα (Q14) pAb (Sepharose Bead Conjugate) #BD0048(lane 2 and lane 3) and Nonspecific IgG Control (Sepharose Bead Conjugate) #BD0048 (lane 4) .Lane 1 is 30% input. The western blot was probed using Topo II α (Q14).

“↑”（supernatant）; “↓(deposition）

Note:

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

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