



# Topoisomerase II $\alpha$ (phospho-Ser1469) rabbit pAb

Cat No.:ES12613

For research use only

## Overview

|                          |                                                                                                                                                                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name             | Topoisomerase II $\alpha$ (phospho-Ser1469) rabbit pAb                                                                                                                                                                                                                                                      |
| Host species             | Rabbit                                                                                                                                                                                                                                                                                                      |
| Applications             | WB                                                                                                                                                                                                                                                                                                          |
| Species Cross-Reactivity | Human;Rat;Mouse;                                                                                                                                                                                                                                                                                            |
| Recommended dilutions    | WB 1:1000-2000                                                                                                                                                                                                                                                                                              |
| Immunogen                | Synthesized phospho peptide around human Topoisomerase II $\alpha$ (Ser1469)                                                                                                                                                                                                                                |
| Specificity              | This antibody detects endogenous levels of Human Topoisomerase II $\alpha$ (phospho-Ser1469)                                                                                                                                                                                                                |
| Formulation              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                     |
| Storage                  | Store at -20°C . Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                         |
| Protein Name             | Topoisomerase II $\alpha$ (Ser1469)                                                                                                                                                                                                                                                                         |
| Gene Name                | TOP2A TOP2                                                                                                                                                                                                                                                                                                  |
| Cellular localization    | Cytoplasm . Nucleus, nucleoplasm . Nucleus . Nucleus, nucleolus .                                                                                                                                                                                                                                           |
| Purification             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                       |
| Clonality                | Polyclonal                                                                                                                                                                                                                                                                                                  |
| Concentration            | 1 mg/ml                                                                                                                                                                                                                                                                                                     |
| Observed band            | 174kD                                                                                                                                                                                                                                                                                                       |
| Human Gene ID            | 7153                                                                                                                                                                                                                                                                                                        |
| Human Swiss-Prot Number  | P11388                                                                                                                                                                                                                                                                                                      |
| Alternative Names        | DNA topoisomerase 2-alpha (EC 5.99.1.3) (DNA topoisomerase II, alpha isozyme)                                                                                                                                                                                                                               |
| Background               | This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and |





replication. It catalyzes the transient breaking and rejoining of two strands of duplex DNA which allows the strands to pass through one another, thus altering the topology of DNA. Two forms of this enzyme exist as likely products of a gene duplication event. The gene encoding this form, alpha, is localized to chromosome 17 and the beta gene is localized to chromosome 3. The gene encoding this enzyme functions as the target for several anticancer agents and a variety of mutations in this gene have been associated with the development of drug resistance. Reduced activity of this enzyme may also pla

