

IHCAb™ Topoisomerase II α mouse mAb (BGT272)

Cat #: B-IMW6914

Size: 100 μ L

Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.

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.

Product Information

Applications/Dilution: IHC-p 1:100-500, WB 1:200-1000, IF 1:100-500

Isotype/Source: Mouse, Monoclonal/IgG1, Kappa

Specificity: The antibody can specifically recognize human Topoisomerase II α protein

Subcellular Location: Cytoplasm . Nucleus, nucleoplasm . Nucleus . Nucleus, nucleolus.

Expression: Expressed in the tonsil, spleen, lymph node, thymus, skin, pancreas, testis, colon, kidney, liver, brain and lung (PubMed:9155056). Also found in high-grade lymphomas, squamous cell lung tumors and seminomas.

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.82% sodium azide

Storage: Store at -15°C to -25°C

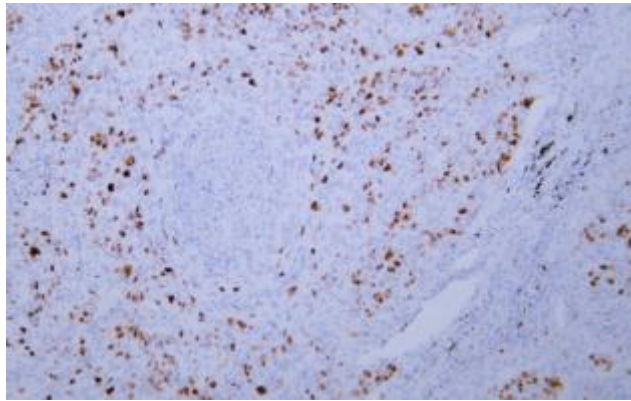


Fig.1. Human lung squamous cell carcinoma tissue was stained with Anti-Topoisomerase II α Antibody

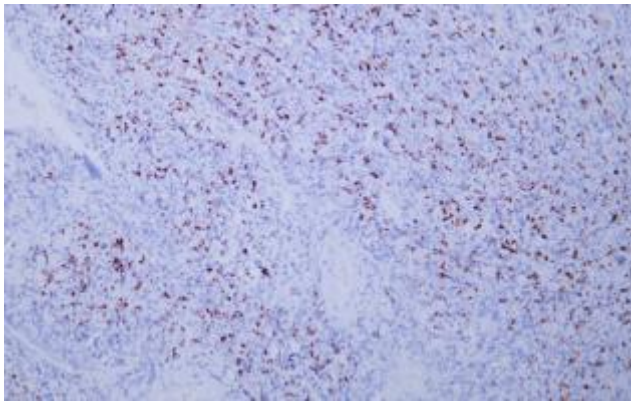


Fig.2. Human lymphoma tissue was stained with Anti-Topoisomerase II α Antibody

Note:

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.