

Topoisomerase 2 beta Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP51578

Product Information

Application WB **Primary Accession** Q02880 Reactivity Human Host Rabbit Clonality Polyclonal Calculated MW 183267

Additional Information

Gene ID 7155

Other Names DNA topoisomerase 2-beta, DNA topoisomerase II, beta isozyme, TOP2B

Target/Specificity KLH-conjugated synthetic peptide encompassing a sequence within the

N-term region of human Topoisomerase 2 beta. The exact sequence is

proprietary.

Dilution WB~~ 1:1000

Format 0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage Store at -20 °C. Stable for 12 months from date of receipt

Protein Information

Name TOP2B

Function Key decatenating enzyme that alters DNA topology by binding to two

> double-stranded DNA molecules, generating a double-stranded break in one of the strands, passing the intact strand through the broken strand, and religating the broken strand. Plays a role in B-cell differentiation.

Cellular Location Nucleus, nucleolus. Nucleus, nucleoplasm. Nucleus

Tissue Location Expressed in the tonsil, spleen, lymph node, thymus, skin, pancreas, testis,

> colon, kidney, liver, brain and lung (PubMed:9155056). Also found in breast, colon and lung carcinomas, Hodgkin's disease, large-cell non-Hodgkin's lymphoma, lymphocytic lymphomas and seminomas (PubMed:9155056).

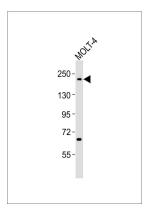
Background

Control of topological states of DNA by transient breakage and subsequent rejoining of DNA strands. Topoisomerase II makes double-strand breaks. Indirectly involved in vitamin D- coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR- mediated transrepression of the CYP27B1 gene.

References

Jenkins J.R., et al. Nucleic Acids Res. 20:5587-5592(1992). Austin C.A., et al. Biochim. Biophys. Acta 1172:283-291(1993). Chung T.D., et al. Proc. Natl. Acad. Sci. U.S.A. 86:9431-9435(1989). Sng J.H., et al. Biochim. Biophys. Acta 1444:395-406(1999). Austin C.A., et al. FEBS Lett. 266:115-117(1990).

Images



Anti-Topoisomerase 2 beta Antibodyat 1:1000 dilution + MOLT-4 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 183 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.