

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 derived from human Topoisomerase 2 beta
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

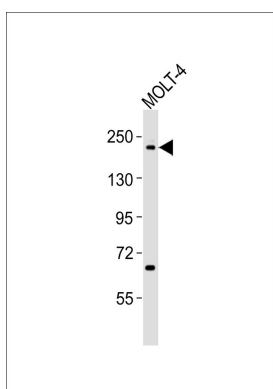
Control of topological states of DNA by transient breakage and subsequent rejoining of DNA strands.

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 Antibody at 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'.