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Anti-Topoisomerase 2 beta Antibody

Catalog # AP51578

Product Information

Application	WB, IHC, CHIP, IF/IC
Primary Accession	Q02880
Reactivity	Human, Mouse, Pig, Dog, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	183267

Additional Information

Gene ID	7155
Other Names	DNA topoisomerase 2-beta; DNA topoisomerase II, beta isozyme
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 IHC~~1:100~500 CHIP~~N/A IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

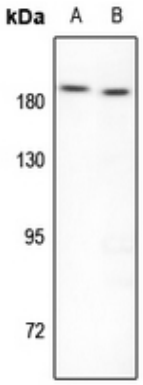
Protein Information

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).

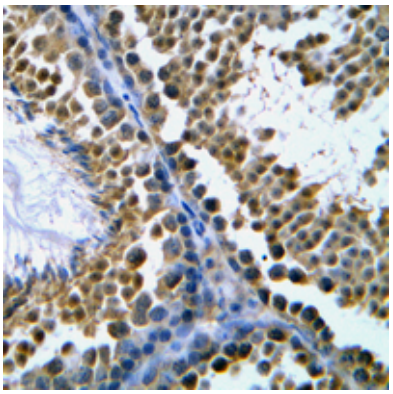
References

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).

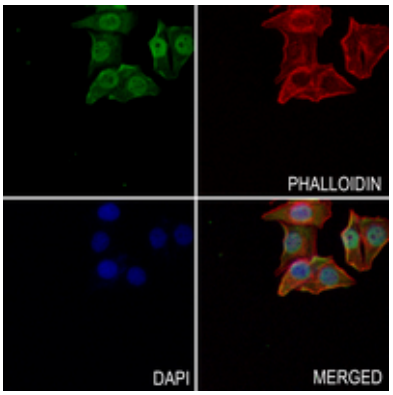
Images



Western blot analysis of Topoisomerase 2 beta expression in HEK293T (A), mouse testis (B) whole cell lysates. (Predicted band size: 183 kD; Observed band size: 183 kD)



Immunohistochemical analysis of Topoisomerase 2 beta staining in human tonsil formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Topoisomerase 2 beta staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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