ARG44961
anti-Topoisomerase II beta / TOP2B antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes Topoisomerase II beta / TOP2B
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Target Name	Topoisomerase II beta / TOP2B
Species	Human
Epitope	LWSLTKEKVE ELIKQRDAKG REVNDLKRKS PSDLWKEDLA AFVEELDKVE SQEREDVLAG MSGKAIKGKV GKPKVKKLQL EETMPSPYGR RIIPEITAMK ADASKKLLKK KKGDLDTAAV KVEFDEEFSG
Conjugation	Un-conjugated
Alternate Names	TOP2B; DNA Topoisomerase II Beta; Top2beta; TOPIIB; Topoisomerase (DNA) II Beta 180kDa; DNA Topoisomerase II, Beta Isozyme; DNA Topoisomerase 2-Beta; DNA Topoisomerase II, 180 KD; U937 Associated Antigen; Topoisomerase II Beta; Topoisomerase IIb; Antigen MLAA-44; Topo II Beta; EC 5.99.1.3; EC 5.6.2.2; BILU

Application Instructions

Application table

Application	Dilution
IHC-P	1:500

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

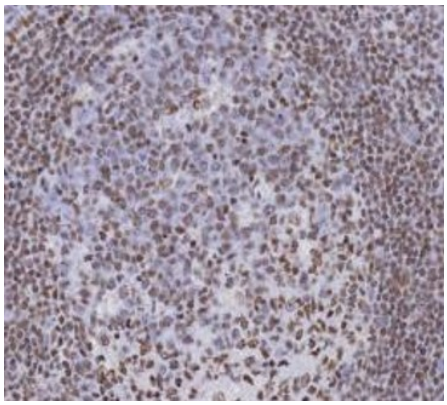
Properties

Form	Liquid
Purification	Protein A purification
Buffer	PBS with 0.09% sodium azide
Preservative	0.09% sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	TOP2B
Gene Full Name	DNA Topoisomerase II Beta
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, beta, is localized to chromosome 3 and the alpha form is localized to chromosome 17. 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 play a role in ataxia-telangiectasia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2016]
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. [UniProt]
PTM	Acetylation, Isopeptide bond, Phosphoprotein, Ubl conjugation. [UniProt]
Cellular Localization	Nucleus. [UniProt]

Images



ARG44961 anti-Topoisomerase II beta / TOP2B antibody IHC-P image

Immunohistochemistry: Human tonsil stained with ARG44961 anti-Topoisomerase II beta / TOP2B antibody at 2 µg/mL dilution.