

Topoisomerase II α (ABT272) IHC kit

CatalogNo: IHCM6914

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat,

Applications

- IHC

Isotype

- IgG1, Kappa

Recommended Dilution Ratios

Storage

Storage* 2°C to 8°C/1 year

Basic Information

Clonality Monoclonal

Clone Number ABT272

Immunogen Information

Immunogen Synthesized peptide derived from human Topoisomerase II α AA range: 1400-1531

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

Target Information

Gene name TOP2A TOP2

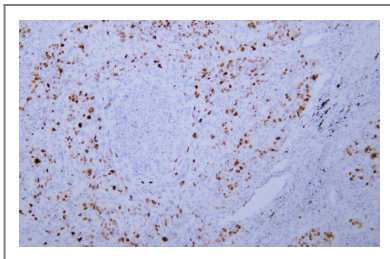
Protein Name	Topoisomerase II α		
	Organism	Gene ID	UniProt ID
	Human	7153 ;	P11388 ;

Cellular Localization Nuclear

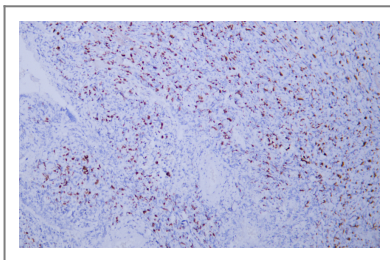
Tissue specificity Expressed in the tonsil, spleen, lymph node, thymus, skin, pancreas, testis, colon, kidney, liver, brain and lung (PubMed:9155056). Also found in high-grade lymphomas, squamous cell lung tumors and seminomas (PubMed:9155056).

Function Catalytic activity:ATP-dependent breakage, passage and rejoining of double-stranded DNA.,enzyme regulation:Specifically inhibited by the intercalating agent amsacrine.,Function:Control of topological states of DNA by transient breakage and subsequent rejoining of DNA strands. Topoisomerase II makes double-strand breaks.,miscellaneous:Eukaryotic topoisomerase I and II can relax both negative and positive supercoils, whereas prokaryotic enzymes relax only negative supercoils.,PTM:Phosphorylation has no effect on catalytic activity.,similarity:Belongs to the type II topoisomerase family.,subcellular location:Generally located in the nucleoplasm.,subunit:Homodimer. Interacts with COPS5.,

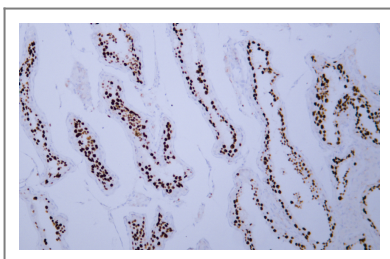
Validation Data



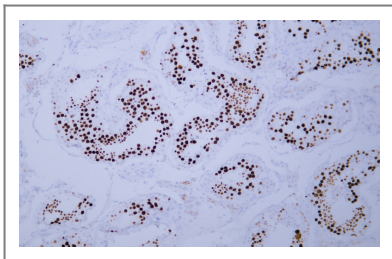
Human lung squamous cell carcinoma tissue was stained with Anti-Topoisomerase II α (ABT272) Antibody



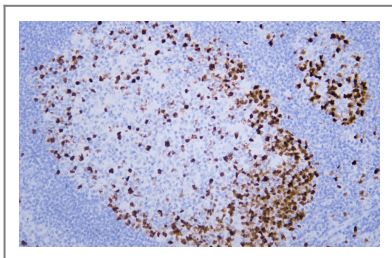
Human lymphoma tissue was stained with Anti-Topoisomerase II α (ABT272) Antibody



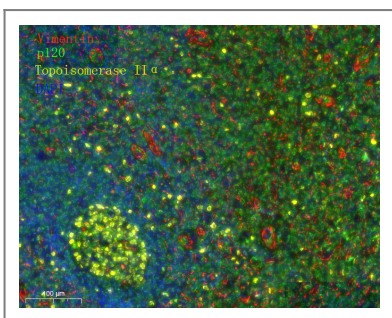
Human seminoma tissue was stained with Anti-Topoisomerase II α (ABT272) Antibody



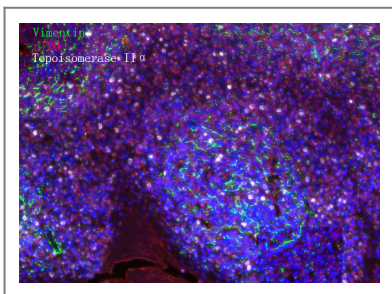
Human testis tissue was stained with Anti-Topoisomerase II α (ABT272) Antibody



Human tonsil tissue was stained with Anti-Topoisomerase II α (ABT272) Antibody



Fluorescence multiplex immunohistochemical analysis of Human tonsil tissue (formalin-fixed paraffin-embedded section). Merged staining of Anti-Vimentin (YM6918), Anti-p120 (YM6086), Anti-Topoisomerase II α (YM6914). The immunostaining was performed on a Leica Biosystems BOND[®] MAX instrument with an Sextuple-Fluorescence kit (RS0039, Immunoway). The section was incubated in 3 rounds of staining; sequentially for Anti-Vimentin (YM6918 1:200), Anti-p120 (YM6086 1:200), Anti-Topoisomerase II α (YM6914 1:200).; each using a separate fluorescent tyramide signal amplification system. EDTA based antigen retrieval (Leica Biosystems BOND[®] Epitope Retrieval Solution 2, pH 9.0, 20 minutes) was used in between rounds of tyramide signal amplification to remove the antibody from the previous round, to avoid any cross-reactivity. DAPI (dark blue) was used as a nuclear counter stain. Microscopy and pseudocoloring of individual dyes was performed using a Slideviewer Imaging System (3D histech).



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Contact information

Orders: order@immunoway.com
Support: tech@immunoway.com
Telephone: 408-747-0189 (USA) 400-8787-807(China)
Website: <http://www.immunoway.com>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:
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