

Anti-TOP2A Antibody (45688)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 174 kDa. Actual: 180 kDa.
Clone:	45688
Purification:	Protein A purified

Applications

	<p>1. 25 µg total protein per lane of various lysates (see on figure) probed with TOP2A monoclonal antibody, unconjugated (TMAB-13674) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min.</p> <p>2. Paraformaldehyde-fixed, paraffin embedded Mouse Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with TOP2A Monoclonal Antibody, Unconjugated (TMAB-13674) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.</p> <p>3. Paraformaldehyde-fixed, paraffin embedded Rat Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with TOP2A Monoclonal Antibody, Unconjugated (TMAB-13674) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.</p>
Verified Activity:	<p>4. Paraformaldehyde-fixed, paraffin embedded Mouse Lymph; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with TOP2A Monoclonal Antibody, Unconjugated (TMAB-13674) at 1:400 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.</p> <p>5. Paraformaldehyde-fixed, paraffin embedded Rat Lymph; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with TOP2A Monoclonal Antibody, Unconjugated (TMAB-13674) at 1:400 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.</p> <p>6. Paraformaldehyde-fixed, paraffin embedded Human Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with TOP2A Monoclonal Antibody, Unconjugated (TMAB-13674) at 1:400 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.</p>
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: A synthesized peptide: human Topoisomerase 2 alpha
Antigen Species: Human
Gene ID: 7153
Uniprot ID: P11388

Research 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, alpha, is localized to chromosome 17 and the beta gene is localized to chromosome 3. 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. [provided by RefSeq, Jul 2010]

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