Topoisomerase &#8545 alpha Rabbit mAb

Catalog No: #48792

Package Size: #48792-1 50ul #48792-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

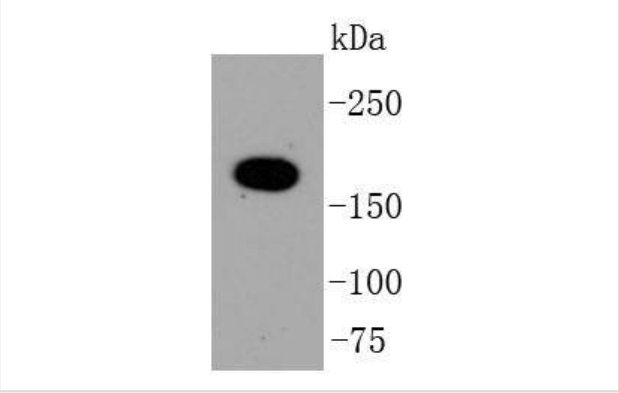
Description

Product Name	Topoisomerase &#8545 alpha Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SY27-00
Purification	ProA affinity purified
Applications	WB, IHC, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	alpha isozyme antibody ATP hydrolyzing DNA topoisomerase II alfa antibody DNA gyrase antibody DNA topoisomerase (ATP hydrolyzing) antibody DNA topoisomerase 2 alpha antibody DNA topoisomerase 2-alpha antibody DNA topoisomerase II 170 kD antibody DNA topoisomerase II alpha isozyme antibody DNA topoisomerase II antibody DNA Topoisomerase2 antibody TOP 2A antibody TOP2 antibody TOP2A antibody TOP2A_HUMAN antibody Topoisomerase DNA II alpha 170kDa antibody TP2A antibody
Accession No.	Swiss-Prot#:P11388
Uniprot	P11388
GeneID	7153;
Calculated MW	174 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

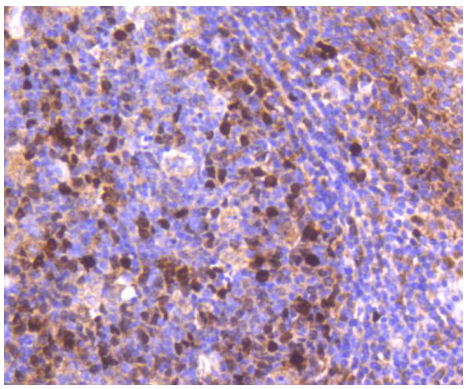
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200

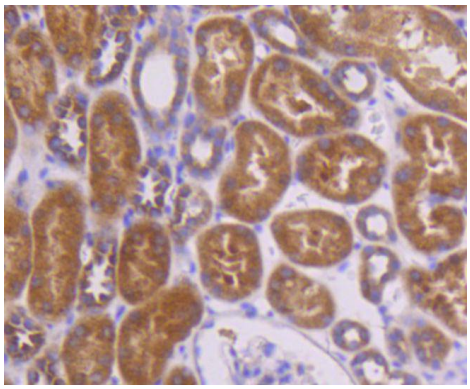
Images



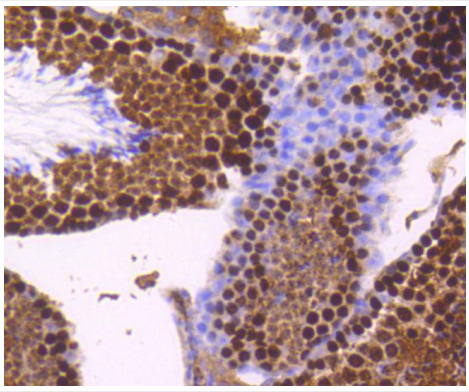
Western blot analysis of Topoisomerase oΩ½oΩ½ alpha on mouse testis lysates using anti-Topoisomerase oΩ½oΩ½ alpha antibody at 1/1,000 dilution.



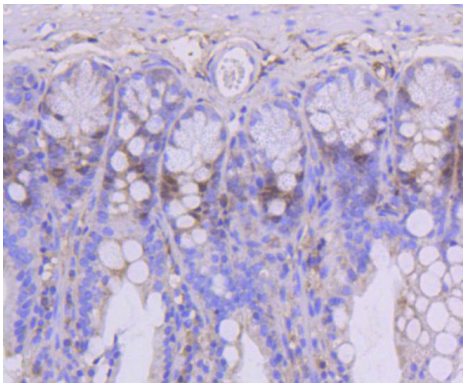
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Topoisomerase oΩ½oΩ½ alpha antibody. Counter stained with hematoxylin.



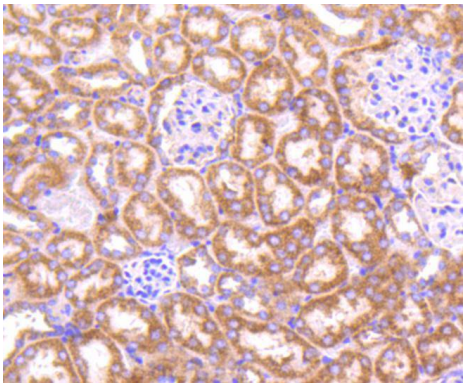
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Topoisomerase oΩ½oΩ½ alpha antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-Topoisomerase oΩ½oΩ½ alpha antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-Topoisomerase oΩ½oΩ½ alpha antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Topoisomerase oΩ½oΩ½ alpha antibody. Counter stained with hematoxylin.

Background

DNA topoisomerase I and II (Topo I and Topo II) are nuclear enzymes that regulate the topological structure of DNA in eukaryotic cells by transiently breaking and rejoining DNA strands. Eukaryotic topoisomerases are capable of relaxing both positive and negative supercoils, whereas prokaryotic topoisomerases relax only negative supercoils. DNA topoisomerases play a role in DNA replication, recombination, and transcription and have been identified as targets of numerous anticancer drugs. Topo I, a ubiquitously expressed, soluble enzyme, acts by introducing a transient break in one strand of DNA, while Topo II acts by making a transient double-strand break. Topo II is encoded by two different genes to generate two distinct isoforms that are designated Topo IIα and Topo IIβ. Topo IIβ and Topo IIα, are largely homologous at their N-terminal three quarters, however, the C-terminal segments are considerably divergent, suggesting that these regions may mediate different cellular functions and account for the observed differential tissue expression patterns of the two isoforms.

References

Note: This product is for in vitro research use only