

Rabbit anti-Human Topo IIalpha Polyclonal Antibody | anti-TOP2A antibody

Topo IIalpha Rabbit pAb

CATALOG # AAA283202	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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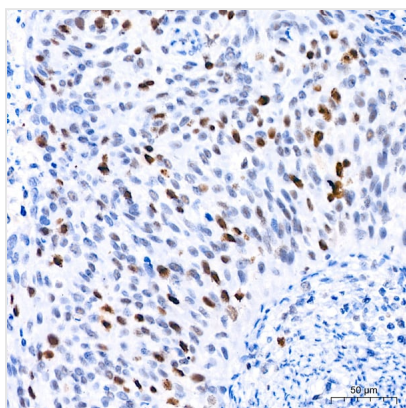
PRODUCT SYNONYMS

Topo IIalpha; Polyclonal Antibody; Topo IIalpha Rabbit pAb; TOP2A; TOP2; TP2A; DNA topoisomerase 2-alpha; anti-TOP2A antibody

PRODUCT SPECIFICATIONS

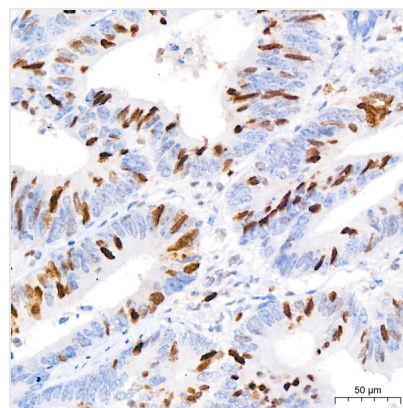
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300, 50% glycerol, pH7.3.
Sequence	GAKKRAAPKG TKRDPALNSG VSQKPDPAKT KNRRKRKPST SDDSDSNFEK IVSKAVTSKK SKGESDDFHM DFDSAAPRA KSVRAKKPIK YLEESDEDDL F
Applicable Applications for anti-TOP2A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1431-1531 of human Topo IIalpha (NP_001058.2).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



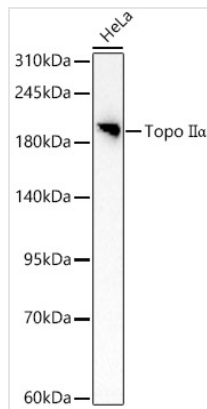
IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human cervix cancer tissue using Topo II? Rabbit pAb (AAA283202) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M Tris-EDTA buffer (pH 9.0) prior to IHC staining.



IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Topo II? Rabbit pAb (AAA283202) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M Tris-EDTA buffer (pH 9.0) prior to IHC staining.



WB (Western Blot)

Western blot analysis of lysates from HeLa cells, using Topo II? Rabbit pAb (AAA283202) at 1:400 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.

ADDITIONAL INFORMATION

Related Product Information for anti-TOP2A antibody	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.
Product Categories/Family for anti-TOP2A antibody	Epigenetics & Nuclear Signaling; Cancer; Drug resistance; Topoisomerases; Cell Biology & Developmental Biology; Apoptosis; Cell Cycle; Centrosome; G2/M DNA Damage Checkpoint; Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	19913406
NCBI GeneID	7153
NCBI Accession #	NP_001058.2
NCBI GenBank Nucleotide #	NM_001067.3
UniProt Accession #	P11388; Q71UN1; Q71UQ5; Q9HB24; Q9HB25; Q9HB26; Q9UP44; Q9UQP9; B2RTS1
Molecular Weight	Calculated MW: 174kDa/177kDa/178kDa/182kDa Observed MW: 190kDa
UniProt Protein Name	DNA topoisomerase 2-alpha
UniProt Gene Name	TOP2A
UniProt Synonym Gene Names	TOP2
UniProt Entry Name	TOP2A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.