

Rabbit anti-Human Topo II Alpha Polyclonal Antibody | anti-TopoIIAlpha antibody

Rabbit anti-Topo II Alpha Antibody, Affinity Purified

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA210740	Rabbit	Human	Immunoprecipitation, Western Blot

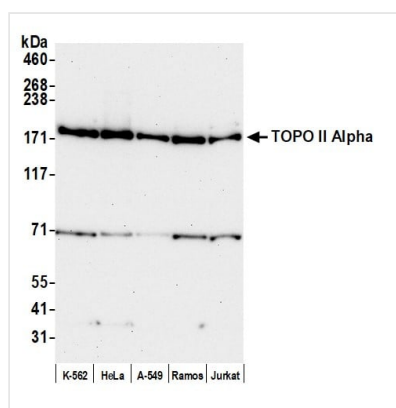
PRODUCT SYNONYMS

Topo II Alpha; Polyclonal Antibody; Rabbit anti-Topo II Alpha Antibody; Affinity Purified; DNA topoisomerase II; alpha isozyme; TP2A; DNA gyrase; TOP2; 170 kDa; DNA topoisomerase 2-alpha; DNA topoisomerase (ATP-hydrolyzing); topoisomerase (DNA) II alpha 170kDa; DNA topoisomerase II alpha; anti-TopoIIAlpha antibody

PRODUCT SPECIFICATIONS

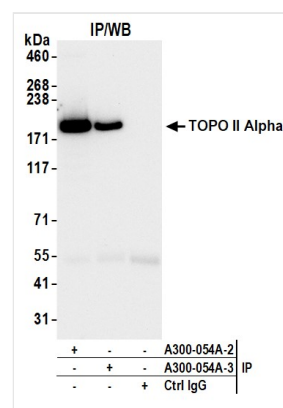
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Concentration	1000ug/ml (varies by lot)
Applicable Applications for anti-TopoIIAlpha antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	Between 1481 and C-terminus
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt

IMAGES



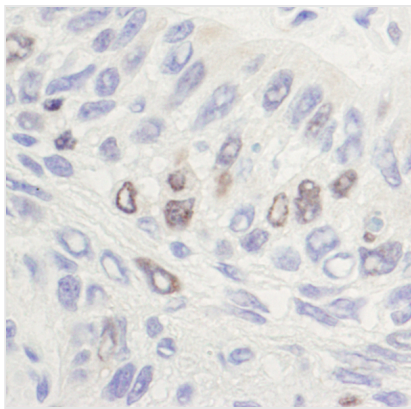
WB (Western Blot)

Detection of human TOPO II Alpha by western blot. Samples: Whole cell lysate (10 ug) from K-562, HeLa, A-549, Ramos, and Jurkat cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-TOPO II Alpha antibody (AAA210740 lot 3) used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



IP (Immunoprecipitation)

Detection of human TOPO II Alpha by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from K-562 cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-TOPO II Alpha antibody (AAA210740 lot 3) used for IP at 6 ug per reaction. TOPO II Alpha was also immunoprecipitated by a previous lot of this antibody (AAA210740 lot 2). For blotting immunoprecipitated TOPO II Alpha, AAA210740 was used at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.



IHC (Immunohistochemistry)

Detection of human Topo II Alpha by immunohistochemistry. Sample: FFPE section of human laryngeal squamous cell carcinoma. Antibody: Affinity purified rabbit anti-Topo II alpha (AAA210740) used at a dilution of 1:1,000 (1ug/ml). Detection: DAB

ADDITIONAL INFORMATION

Related Product Information for anti-TopoIIAlpha antibody	Topoisomerases regulate topological states of DNA and are divided into type I and type II enzymes. Type II topoisomerases make double stranded breaks in DNA and allow the passage of another duplex DNA across the break to achieve unknotting of entangled DNA. Topo II Alpha is one of two described isoforms that are likely products of a gene duplication event. TopoII Alpha is also described to be involved in chromosome condensation, chromatid separation, and the relief of supercoil stress.
Product Categories/Family for anti-TopoIIAlpha antibody	Primary 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	174,385 Da
NCBI Official Full Name	DNA topoisomerase 2-alpha
NCBI Official Synonym Full Names	topoisomerase (DNA) II alpha 170kDa
NCBI Official Symbol	TOP2A
NCBI Official Synonym Symbols	TOP2; TP2A
NCBI Protein Information	DNA topoisomerase 2-alpha; DNA gyrase; DNA topoisomerase II, 170 kD; DNA topoisomerase (ATP-hydrolyzing); DNA topoisomerase II, alpha isozyme
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.

