Topo II Alpha Antibody

Rabbit Polyclonal

Antigen Affinity Purified Protein ID NP_001058.2

Catalog No. A300-054A GenelD 7153

Lot No. A300-054A-2

APPLICATIONS WB, IP, IHC

SPECIES REACTIVITY Human
AMOUNT 100 µl

CONCENTRATION 1000 μg/ml

STORAGE/SHELF LIFE 2 - 8° C / 1 year from date of receipt

PHYSICAL STATE Liquid

BUFFER Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide

ISOTYPE IgG
ORIGIN USA

PRODUCTION Antibody was affinity purified using an epitope specific to Topo II Alpha immobilized on solid

PROCEDURES support.

The epitope recognized by A300-054A maps to a region between residue 1500 and the C-terminus (residue 1531) of human Topoisomerase (DNA) II Alpha using the numbering given in

entry NP_001058.2 (GeneID 7153).

Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm

of 1.4 equals 1.0 mg of IgG.

APPLICATIONS Centrifuge tube to remove product from lid. Optimal working dilutions should be determined

experimentally by the investigator. Prepare working dilution immediately before use.

Western Blot 1:10,000 - 1:30,000

Immunoprecipitation 2 – 10 µg/mg lysate

Immunohistochemistry 1:500 – 1:2,000. Epitope retrieval with citrate buffer pH 6.0 is

recommended for FFPE tissue sections.

APPLICATION NOTES Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. S100–020),

Goat anti-Rabbit Light Chain HRP Conjugate (Cat. No. A120-113P) and 4-8% SDS-PAGE

(link to IP-western blot protocol in Additional Info section below).

Western blot of lysates performed using standard western blot reagents and 4-8% SDS-PAGE.

IHC HUMAN CONTROLS Laryngeal Squamous Cell Carcinoma, Stomach Adenocarcinoma

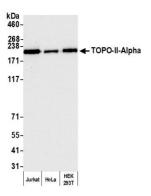
ADDITIONAL INFO https://www.bethyl.com/product/A300-054A

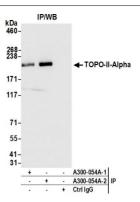
Use the link above to view SDS, a current list of citations, and other product specific information.

IP-western blot protocol: https://www.bethyl.com/content/protocol_IP_WB

This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc. Eric McIntush, PhD | Chief Scientific Officer Date: February 21, 2020

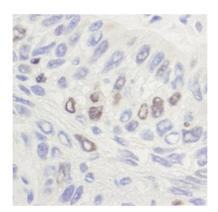






Detection of human TOPO-II-Alpha by western blot. Samples: Whole cell lysate (25 μg) from Jurkat, HeLa, and HEK293T cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-TOPO-II-Alpha antibody A300-054A (lot A300-054A-2) used for WB at 0.04 μg/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.

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 Jurkat cells prepared using NETN lysis buffer. *Antibodies:* Affinity purified rabbit anti-TOPO-II-Alpha antibody A300-054A (lot A300-054A-2) used for IP at 6 μg per reaction. TOPO-II-Alpha was also immunoprecipitated by a previous lot of this antibody (lot A300-054A-1). For blotting immunoprecipitated TOPO-II-Alpha, A300-054A was used at 0.04 μg/ml. *Detection:* Chemiluminescence with an exposure time of 1 second.



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 (Cat. No. A300-054A lot 1) used at a dilution of 1:1,000 (1µg/ml). Detection: DAB