

Datasheet for ABIN6940773

**anti-Topoisomerase II alpha antibody (AA 1352-1493)**[Go to Product page](#)

## 7 Images

## Overview

Quantity:	100 µg
Target:	Topoisomerase II alpha (TOP2A)
Binding Specificity:	AA 1352-1493
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Topoisomerase II alpha antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Staining Methods (StM)

## Product Details

Immunogen:	Recombinant human Topoisomerase II alpha fragment (aa1352-1493)
Clone:	TOP2A-1361
Isotype:	IgG2b kappa
Specificity:	It recognizes a 170 kDa protein, which is identified as topoisomerase II is also implicated in drug resistance of tumor cells and has been shown to be over-expressed in many human cancers. Decreased expression of Topo IIa is the predominant mechanism of resistance to several chemotherapeutic agents.
Purification:	Purified by Protein A/G

## Target Details

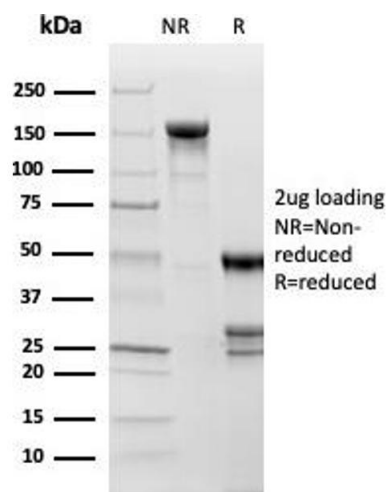
Target:	Topoisomerase II alpha (TOP2A)
Alternative Name:	TOP2A ( <a href="#">TOP2A Products</a> )
Molecular Weight:	170kDa
Gene ID:	7153
UniProt:	<a href="#">P11388</a>
Pathways:	<a href="#">Cell Division Cycle, Mitotic G1-G1/S Phases</a>

## Application Details

Application Notes:	Positive Control: HeLa cells. Tonsil. Known Application: Immunofluorescence (1-2 µg/mL), Western Blot (0.5-1 µg/mL), Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL for 30 min at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

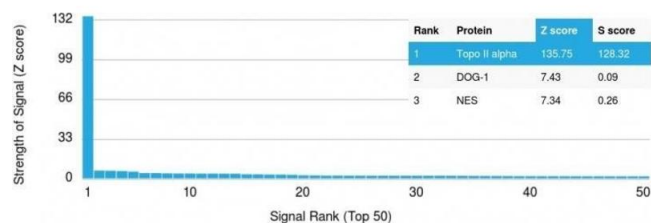
## Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months



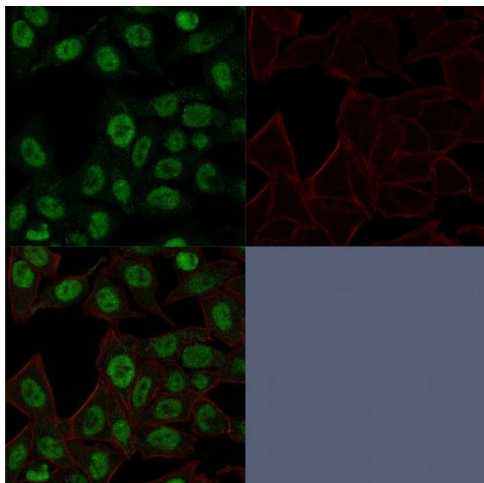
### Western Blotting

**Image 1.** SDS-PAGE Analysis Purified Topoisomerase II alpha, Monoclonal Antibody (TOP2A/1361). Confirmation of Purity and Integrity of Antibody.



### Protein Array

**Image 2.** Analysis of Protein Array containing more than 19,000 full-length human proteins using Topoisomerase II alpha Mouse Monoclonal Antibody (TOP2A/1361). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



### Immunofluorescence

**Image 3.** Confocal Immunofluorescence image of HeLa cells using Topo II alpha, Monoclonal Antibody (TOP2A/1361). Green (CF488) and Phalloidin (Red) is used to label the nuclei.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN6940773.