

Datasheet for ABIN4949920

## anti-Topoisomerase II alpha antibody (AA 1352-1493)



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### 1 Image

#### Overview

|                      |                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µg                                                                                                                                |
| Target:              | Topoisomerase II alpha (TOP2A)                                                                                                        |
| Binding Specificity: | AA 1352-1493                                                                                                                          |
| Reactivity:          | Human                                                                                                                                 |
| Host:                | Mouse                                                                                                                                 |
| Clonality:           | Monoclonal                                                                                                                            |
| Conjugate:           | This Topoisomerase II alpha antibody is un-conjugated                                                                                 |
| Application:         | Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS),<br>Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

#### Product Details

|               |                                                                                                  |
|---------------|--------------------------------------------------------------------------------------------------|
| Immunogen:    | Amino acids 1352-1493 from the human protein were used as the immunogen for this TOP2A antibody. |
| Clone:        | TOP2A-1362                                                                                       |
| Isotype:      | IgG2b kappa                                                                                      |
| Purification: | Protein G affinity chromatography                                                                |

#### Target Details

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Target:           | Topoisomerase II alpha (TOP2A)                                    |
| Alternative Name: | TOP2A / Topoisomerase II alpha ( <a href="#">TOP2A Products</a> ) |

## Target Details

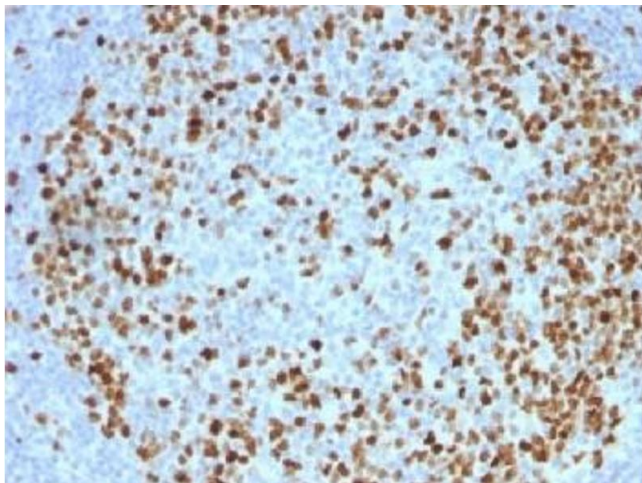
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background: | This mAb recognizes an ~170 kDa protein which is identified as Topoisomerase IIa, and shows no cross-reaction with Topoisomerase IIb or I. Topo IIa plays important roles in synthesis and transcription of DNA as well as chromosomal segregation during mitosis. It is reported to be a sensitive and specific marker of late S-, G2- & M-phases in transformed and developmentally regulated normal cells. Topo IIa is also implicated in drug resistance of tumor cells. |
| Gene ID:    | 7153                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Pathways:   | <a href="#">Cell Division Cycle, Mitotic G1-G1/S Phases</a>                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Application Details

|                    |                                                                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the TOP2A antibody to be titrated up or down for optimal performance.\. FACS: 0.5-1 µg/10 <sup>6</sup> cells in 0.1ml,IF: 1-2 µg/mL,Western blot: 1-2 µg/mL,IHC (FFPE): 0.5-1 µg/mL |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                          |

## Handling

|                  |                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------|
| Concentration:   | 1 mg/mL                                                                                                 |
| Buffer:          | 1 mg/mL in 1X PBS, BSA free, sodium azide free                                                          |
| Preservative:    | Azide free                                                                                              |
| Storage:         | 4 °C,-20 °C                                                                                             |
| Storage Comment: | Store the TOP2A antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide). |



#### Immunohistochemistry

**Image 1.** IHC testing of FFPE human tonsil with TOP2A antibody (clone TOP2A/1362). Required HIER: boil sections in 10mM citrate buffer, pH6, for 10-20 min followed by cooling at RT for 20 min.