abcam

Product datasheet

# Alexa Fluor® 647 Anti-Topoisomerase II alpha + Topoisomerase II beta/TOP2B antibody [EPR5377] ab200993

Recombinant RabMAb

3 Images

## Overview

| | |
|---|---|
| **Product name** | Alexa Fluor® 647 Anti-Topoisomerase II alpha + Topoisomerase II beta/TOP2B antibody [EPR5377] |
| **Description** | Alexa Fluor® 647 Rabbit monoclonal [EPR5377] to Topoisomerase II alpha + Topoisomerase II beta/TOP2B |
| **Host species** | Rabbit |
| **Conjugation** | Alexa Fluor® 647. Ex: 652nm, Em: 668nm |
| **Tested applications** | **Suitable for:** ICC/IF, Flow Cyt (Intra) |
| **Species reactivity** | **Reacts with:** Human<br>**Predicted to work with:** Mouse, Rat |
| **Immunogen** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | ICC/IF: HeLa cells Flow Cyt (intra): HeLa cells. |
| **General notes** | This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.<br>Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: in manufacturing; (ii) to |

provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or **outlicensing@thermofisher.com**.

## Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark. |
| **Storage buffer** | pH: 7.40<br>Preservative: 0.02% Sodium azide<br>Constituents: 30% Glycerol (glycerin, glycerine), PBS, 1% BSA |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | EPR5377 |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab200993 in the following tested applications.

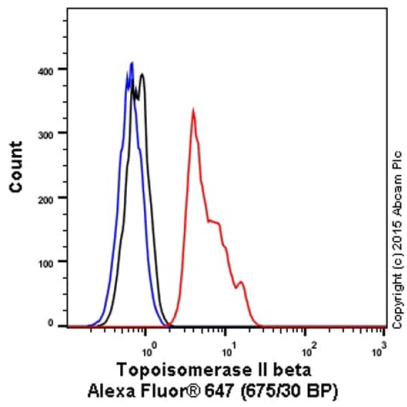
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **ICC/IF** | | 1/200. |
| **Flow Cyt (Intra)** | | 1/50. |

## Target

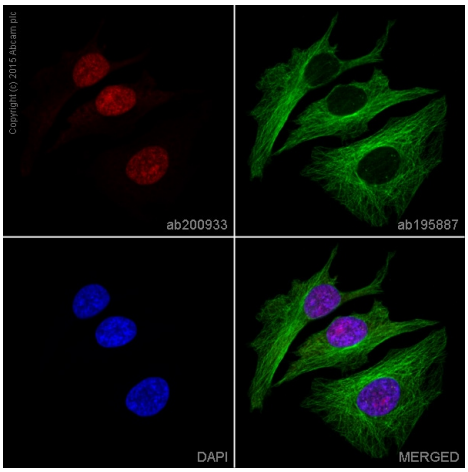
**Cellular localization** Topoisomerase II alpha: Cytoplasm. Nucleus > nucleoplasm. Generally located in the nucleoplasm. Topoisomerase II beta: Cytoplasm. Nucleus > nucleolus.

## Images




Flow Cytometry (Intracellular) - Alexa Fluor® 647 Anti-Topoisomerase II alpha + Topoisomerase II beta/TOP2B antibody [EPR5377] (ab200993)

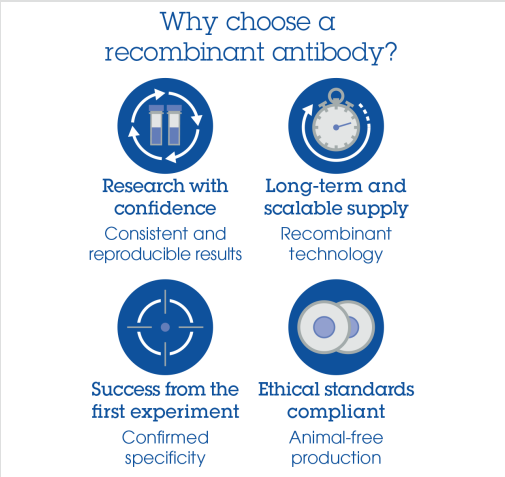
Overlay histogram showing HeLa cells stained with ab200993 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab200993, 1/50 dilution) for 30 min at 22°C. Isotype control antibody (black line) was rabbit monoclonal IgG [EPR25A] Alexa Fluor® 647 (**ab199093**) used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a solid-state 25mW red diode laser (635 nm) and 675/30 bandpass filter.




Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 647 Anti-Topoisomerase II alpha + Topoisomerase II beta/TOP2B antibody [EPR5377] (ab200993)

**ab200933** staining Topoisomerase II alpha + Topoisomerase II beta in HeLa cells. The cells were fixed with 100% methanol (5min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with **ab200933** at 1/200 dilution (shown in red) and **ab195887**, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 488), at 2µg/ml (shown in green). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).




Alexa Fluor® 647 Anti-Topoisomerase II alpha + Topoisomerase II beta/TOP2B antibody [EPR5377] (ab200993)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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