


## Product datasheet

# Anti-Topoisomerase I antibody [23B11] ab200869

★☆☆☆☆ [1 Abreviews](#) [2 Images](#)

### Overview

---

<b>Product name</b>	Anti-Topoisomerase I antibody [23B11]
<b>Description</b>	Mouse monoclonal [23B11] to Topoisomerase I
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Dog, Human <b>Predicted to work with:</b> Xenopus laevis, Chinese hamster 
<b>Immunogen</b>	Synthetic peptide corresponding to Human Topoisomerase I aa 650-750 conjugated to keyhole limpet haemocyanin. Database link: <a href="#">P11387</a> <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: Jurkat, MCF7, HEK293, NIH/3T3, NTERA-2, HeLa. Whole cell lysates of serum starved HeLa, HepG2, HEK293, SH-SY5Y, MDCK PC12, CMT 93, Neuro 2A and 3T3 tumor cells.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

---

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.09% Sodium azide Constituent: PBS  With PEG and sucrose.
<b>Purity</b>	Size exclusion

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	23B11
<b>Isotype</b>	IgG1

## Applications

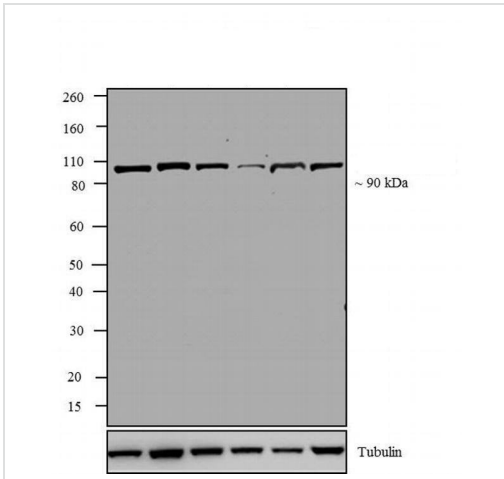
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab200869 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★☆☆☆☆ (1)	Use a concentration of 0.5 µg/ml. Predicted molecular weight: 91 kDa.

## Target

<b>Function</b>	The reaction catalyzed by topoisomerases leads to the conversion of one topological isomer of DNA to another.
<b>Involvement in disease</b>	Note=A chromosomal aberration involving TOP1 is found in a form of therapy-related myelodysplastic syndrome. Translocation t(11;20)(p15;q11) with NUP98.
<b>Sequence similarities</b>	Belongs to the eukaryotic type I topoisomerase family.
<b>Post-translational modifications</b>	Sumoylated. Lys-117 is the main site of sumoylation. Sumoylation plays a role in partitioning TOP1 between nucleoli and nucleoplasm. Levels are dramatically increased on camptothecin (CPT) treatment.
<b>Cellular localization</b>	Nucleus > nucleolus. Nucleus > nucleoplasm. Diffuse nuclear localization with some enrichment in nucleoli. On CPT treatment, cleared from nucleoli into nucleoplasm. Sumoylated forms found in both nucleoplasm and nucleoli.

## Images



Western blot - Anti-Topoisomerase I antibody [23B11] (ab200869)

**All lanes :** Anti-Topoisomerase I antibody [23B11] (ab200869) at 1/1000 dilution

**Lane 1 :** Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

**Lane 2 :** MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

**Lane 3 :** HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate

**Lane 4 :** NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

**Lane 5 :** NTERA-2 (Human malignant pluripotent embryonic carcinoma cell line) whole cell lysate

**Lane 6 :** HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 30 µg per lane.

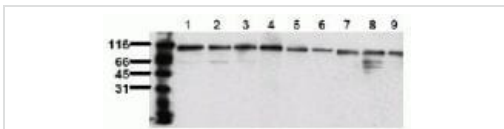
### Secondary

**All lanes :** Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate at 1/2500 dilution

**Predicted band size:** 91 kDa

**Observed band size:** ~90 kDa

The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate



Western blot - Anti-Topoisomerase I antibody [23B11] (ab200869)

**All lanes :** Anti-Topoisomerase I antibody [23B11] (ab200869) at 0.5 µg/ml

**Lane 1 :** Whole cell lysate of serum starved HeLa cells

**Lane 2 :** Whole cell lysate of serum starved HepG2 cells

**Lane 3 :** Whole cell lysate of serum starved HEK293 cells

**Lane 4 :** Whole cell lysate of serum starved SH-SY5Y cells

**Lane 5 :** Whole cell lysate of serum starved MDCK cells

**Lane 6 :** Whole cell lysate of serum starved PC12 cells

**Lane 7 :** Whole cell lysate of serum starved CMT 93 cells

**Lane 8 :** Whole cell lysate of serum starved Neuro 2A cells

**Lane 9 :** Whole cell lysate of serum starved 3T3 tumor cells

Lysates/proteins at 20000 cells per lane.

Developed using the ECL technique.

**Predicted band size:** 91 kDa

**Exposure time:** 30 seconds

PVDF membrane.

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

### **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors