

## Product datasheet

# Anti-Topoisomerase I antibody [Mab1] ab12407

### Overview

<b>Product name</b>	Anti-Topoisomerase I antibody [Mab1]
<b>Description</b>	Mouse monoclonal [Mab1] 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> Human
<b>Immunogen</b>	Full length protein (Human).
<b>Positive control</b>	Extract of A231 human kidney cells.

### 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 or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 15mM Sodium Azide Constituents: 0.01M PBS, pH 7.4
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	Mab1
<b>Myeloma</b>	Sp2/0
<b>Isotype</b>	IgG1

### Applications

Our [Abpromise guarantee](#) covers the use of **ab12407** 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		Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 100 kDa (predicted molecular weight: 91 kDa).

## Target

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<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.

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