

## Product datasheet

# Anti-Geminin antibody [1A8] ab104306

★★★★★ [1 Abreviews](#) [7 References](#) [7 Images](#)

### Overview

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<b>Product name</b>	Anti-Geminin antibody [1A8]
<b>Description</b>	Mouse monoclonal [1A8] to Geminin
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF, WB, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment, corresponding to amino acids 110-209 of Human Geminin (AAH05185) with a proprietary tag.
<b>Positive control</b>	Partial tagged recombinant Geminin; Geminin transfected 293T cell lysate; Human lymph node; Human placenta; HeLa cells.
<b>General notes</b>	<p>This product was changed from ascites to tissue culture supernatant on 22 May 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <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

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Constituent: 100% PBS
<b>Purity</b>	Tissue culture supernatant
<b>Purification notes</b>	Purified from TCS.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	1A8

Isotype	IgG1
Light chain type	kappa

## Applications

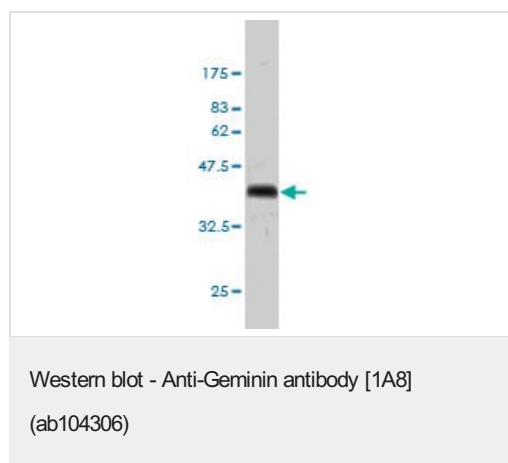
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab104306 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 24 kDa.
Flow Cyt		Use at an assay dependent concentration. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

## Target

<b>Function</b>	Inhibits DNA replication by preventing the incorporation of MCM complex into prereplication complex (pre-RC). It is degraded during the mitotic phase of the cell cycle. Its destruction at the metaphase-anaphase transition permits replication in the succeeding cell cycle.
<b>Sequence similarities</b>	Belongs to the geminin family.
<b>Developmental stage</b>	Absent during G1 phase, accumulates during S, G2, and M phases, and disappears at the time of the metaphase-anaphase transition.

## Images

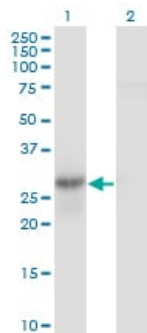


Anti-Geminin antibody [1A8] (ab104306) at 5 µg/ml + Immunogen at 0.2 µg

**Predicted band size:** 24 kDa

The tagged immunogen has a predicted MWt of 37 kDa.

This image was generated using the ascites version of the product.



Western blot - Anti-Geminin antibody [1A8]  
(ab104306)

**All lanes :** Anti-Geminin antibody [1A8] (ab104306) at 5 µg/ml

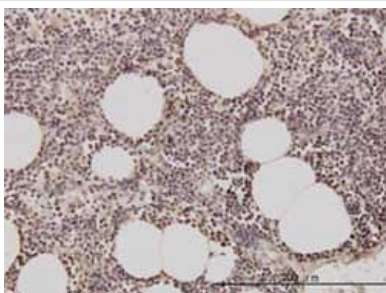
**Lane 1 :** Geminin transfected 293T cell lysate

**Lane 2 :** Non-transfected 293T cell lysate

Lysates/proteins at 25 µg per lane.

**Predicted band size:** 24 kDa

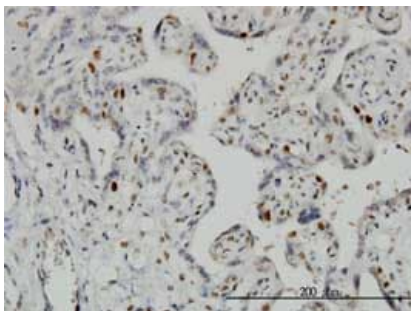
This image was generated using the ascites version of the product.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Geminin antibody [1A8]  
(ab104306)

ab104306, at 3 µg/ml, staining Geminin in formalin-fixed paraffin-embedded Human lymph node by Immunohistochemistry.

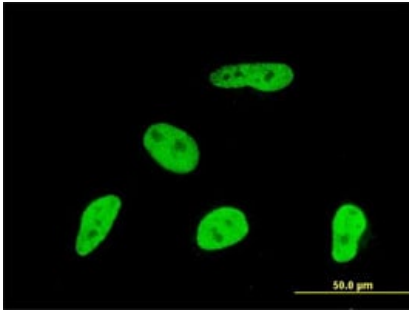
This image was generated using the ascites version of the product.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Geminin antibody [1A8]  
(ab104306)

ab104306, at 1 µg/ml, staining Geminin in formalin-fixed paraffin-embedded Human placenta by Immunohistochemistry.

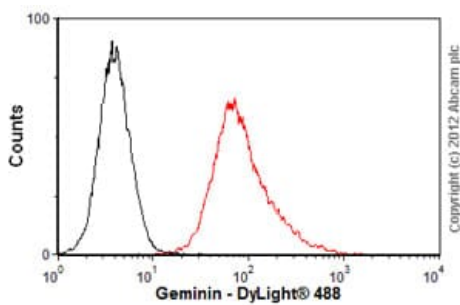
This image was generated using the ascites version of the product.



Immunocytochemistry/ Immunofluorescence - Anti-Geminin antibody [1A8] (ab104306)

ab104306, at 10 μg/ml, staining Geminin in HeLa cells by Immunofluorescence.

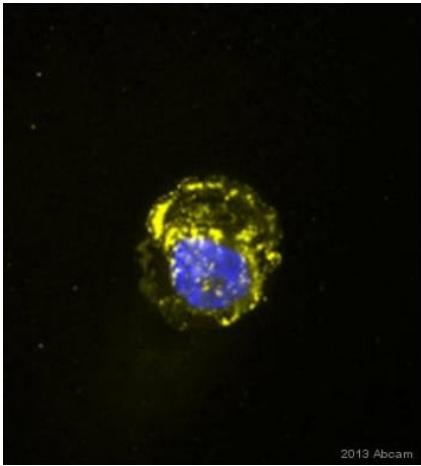
This image was generated using the ascites version of the product.



Flow Cytometry - Anti-Geminin antibody [1A8] (ab104306)

Overlay histogram showing HeLa cells stained with ab104306 (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 (ab104306, 1 μg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [CIGG1] ([ab91353](#), 2 μg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

This image was generated using the ascites version of the product.



Immunofluorescence analysis of Caki-2 (Clear cell renal carcinoma) cells, staining Geminin with ab104306.

Cells were fixed with formaldehyde, permeabilized with 0.25% Triton X-100 and blocked with 1% BSA for 30 minutes at 25°C. Primary antibody was concentrated using [ab102778](#) Antibody Concentration Kit and conjugated to Rhodamine using [ab102915](#) EasyLink Rhodamine Conjugation Kit. Samples were incubated with conjugated primary antibody (20 µg/ml in diluent) for 2 hours at 25°C.

This image was generated using the ascites version of the product.

Immunocytochemistry/ Immunofluorescence - Anti-Geminin antibody [1A8] (ab104306)

This image is courtesy of an Abreview submitted by Melody Jimenez

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