

Product datasheet

Anti-Geminin antibody ab229009

4 Images

Overview

<b>Product name</b>	Anti-Geminin antibody
<b>Description</b>	Rabbit polyclonal to Geminin
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF, IP, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rhesus monkey 
<b>Immunogen</b>	Recombinant full length protein corresponding to Human Geminin aa 1-209. Sequence: MNPSMKQKQEEIKENIKNSSVPRRTLKMIQPSASGSLV GRENELSAGLSK RKHRNDHLTSTTSSPGVMPESSENKNLGGVTQESFD LMIKENPSSQYWK EVAEKRRKALYEALKENEKLHKEIEQKDNEIARLKKEN KELAEVAEHVQY MAELIERLNGEPLDNFESLDNQEFDSEEETVEDSLVE DSEIGTCAEGTVS SSTDAKPCI  Database link: <a href="#">O75496</a>   <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: HCT 116 whole cell lysate. IP: HCT 116 whole cell extract. IHC-P: Human breast cancer tissue. ICC/IF: HeLa 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 long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal

Isotype

IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab229009** 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		1/500 - 1/3000. Predicted molecular weight: 24 kDa.
ICC/IF		1/100 - 1/1000.
IP		1/100 - 1/500.
IHC-P		1/100 - 1/1000.

## Target

### Function

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.

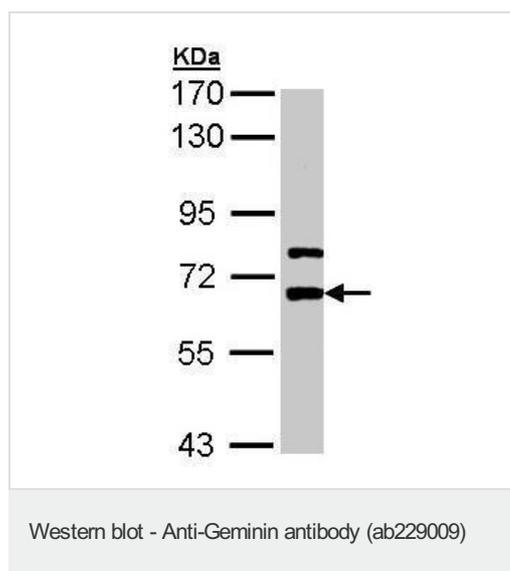
### Sequence similarities

Belongs to the geminin family.

### Developmental stage

Absent during G1 phase, accumulates during S, G2, and M phases, and disappears at the time of the metaphase-anaphase transition.

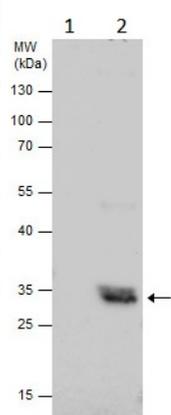
## Images



Anti-Geminin antibody (ab229009) at 1/1000 dilution + HCT 116 (human colorectal carcinoma cell line) whole cell lysate at 30  $\mu$ g

**Predicted band size:** 24 kDa

12% SDS-PAGE gel.



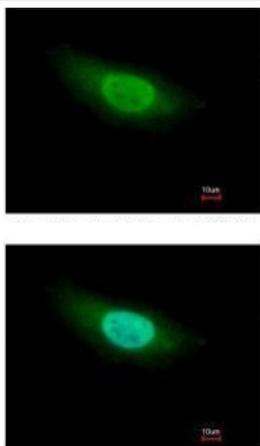
Immunoprecipitation - Anti-Geminin antibody  
(ab229009)

Geminin was immunoprecipitated from HCT 116 (human colorectal carcinoma cell line) whole cell extract with 5  $\mu$ g of ab229009.

Western blot was performed from the immunoprecipitate using ab229009. Anti-Rabbit IgG was used as a secondary reagent.

**Lane 1:** Control IgG instead of ab229009 in HCT 116 whole cell extract.

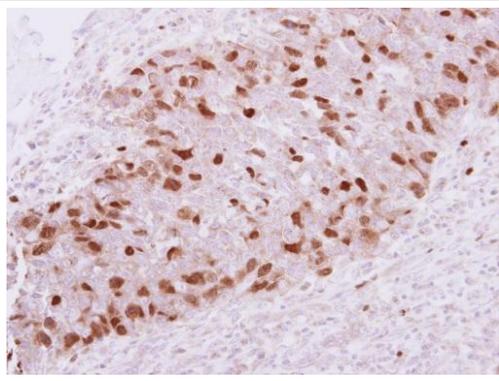
**Lane 2:** ab229009 IP in HCT116 whole cell extract.



Immunocytochemistry/ Immunofluorescence - Anti-Geminin antibody (ab229009)

Paraformaldehyde-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for Geminin (green) using ab229009 at 1/500 dilution in ICC/IF.

Nuclear counterstain: Hoechst 33342 (blue).



Paraffin-embedded human breast cancer tissue stained for Geminin using ab229009 at 1/250 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Geminin antibody (ab229009)

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

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