

For Research Use Only

# Geminin Polyclonal antibody

Catalog Number: 10802-1-AP

Featured Product

66 Publications



## Basic Information

### Catalog Number:

10802-1-AP

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1076

### GenBank Accession Number:

BC005185

### GeneID (NCBI):

51053

### UNIPROT ID:

O75496

### Full Name:

geminin, DNA replication inhibitor

### Calculated MW:

24 kDa

### Observed MW:

28-29 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:2000-1:12000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

IF/ICC: 1:400-1:1600

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB**: HEK-293 cells, human testis tissue, mouse testis tissue, HeLa cells; mouse testis tissue, rat testis tissue

**IP**: HEK-293 cells,

**IHC**: human colon cancer tissue, human breast cancer tissue

**IF/ICC**: HepG2 cells,

**FC (Intra)**: HeLa cells,

## Background Information

GMNN, also designated geminin, contains 212 amino acids and has a destruction box sequence (RRTLKVIQP). GMNN participates in inhibiting DNA replication by preventing the incorporation of MCM complex into the pre-replication complex (pre-RC). It is degraded during the metaphase-anaphase transition of cell cycle's mitotic phase, which permits replication in the succeeding cell cycle. GMNN has a broad sedimentation profile ranging from about 25 kDa to 90 kDa, with a major peak at 30 kDa. Scanning of the signals shows that discrete peaks corresponding to the apparent mass of 42.5 kDa and 66 kDa are present. The dimer of geminin(50 kDa) can also be detected. (PMID: 15313623)

## Notable Publications

Author	Pubmed ID	Journal	Application
Haile Zhao	34658851	Front Pharmacol	WB,IP
Lise M van Wijk	33003546	Cancers (Basel)	IF
A Llop-Guevara	34520831	Ann Oncol	IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

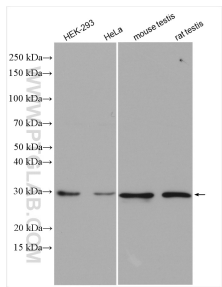
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

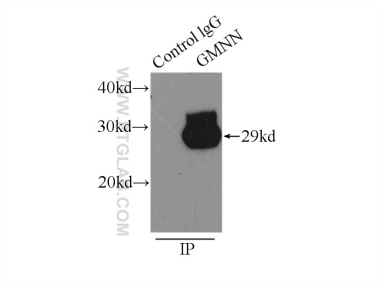
W: [ptgcn.com](http://ptgcn.com)

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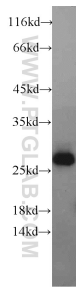
Selected Validation Data



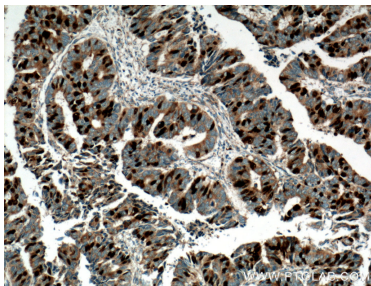
Various lysates were subjected to SDS PAGE followed by western blot with 10802-1-AP (Geminin antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



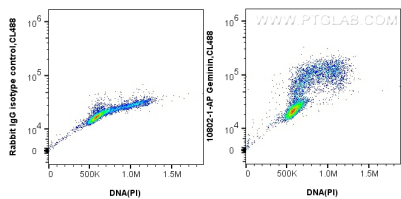
IP result of anti-Geminin (IP:10802-1-AP, 4ug; Detection:10802-1-AP 1:1000) with HEK-293 cells lysate 4500ug.



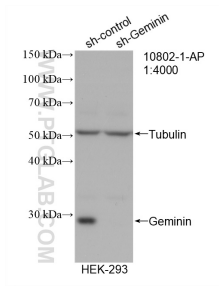
human testis tissue were subjected to SDS PAGE followed by western blot with 10802-1-AP (Geminin antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10802-1-AP (Geminin antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human Geminin (10802-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



WB result of Geminin antibody (10802-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Geminin transfected HEK-293 cells.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Geminin antibody (10802-1-AP) at dilution of 1:800 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).