

For Research Use Only

# Geminin Recombinant antibody

Catalog Number: 84199-2-RR



## Basic Information

<b>Catalog Number:</b> 84199-2-RR	<b>GenBank Accession Number:</b> BC005185	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 51053	<b>CloneNo.:</b> 240835B5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O75496	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> geminin, DNA replication inhibitor	
<b>Immunogen Catalog Number:</b> AG1076	<b>Calculated MW:</b> 24 kDa	
	<b>Observed MW:</b> 28-29 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b> WB : Jurkat cells, HEK-293 cells IF/ICC : HeLa cells, HepG2 cells
<b>Species Specificity:</b> human	

## 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)

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

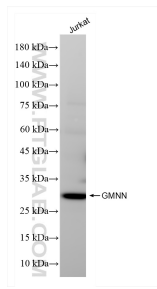
T: 4006900926

E: Proteintech-CN@ptglab.com

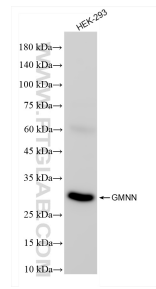
W: ptgcn.com

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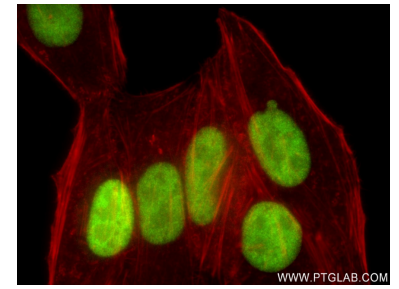
## Selected Validation Data



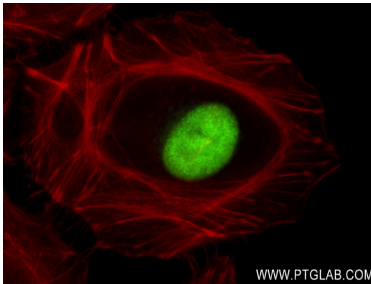
Jurkat cells were subjected to SDS PAGE followed by western blot with 84199-2-RR (GMNN antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



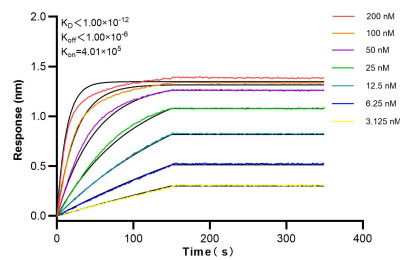
HEK-293 cells were subjected to SDS PAGE followed by western blot with 84199-2-RR (GMNN antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Geminin antibody (84199-2-RR, Clone: 240835B5) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Geminin antibody (84199-2-RR, Clone: 240835B5) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 84199-2-RR against Human Geminin were performed. The affinity constant is below 1 pM.