

For Research Use Only

Geminin Recombinant antibody

Catalog Number: 84199-2-RR



Basic Information

Catalog Number: 84199-2-RR	GenBank Accession Number: BC005185	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 51053	CloneNo.: 240835B5
Source: Rabbit	UNIPROT ID: O75496	Recommended Dilutions: WB 1:500-1:2000 IF/ICC 1:50-1:500
Isotype: IgG	Full Name: geminin, DNA replication inhibitor	
Immunogen Catalog Number: AG1076	Calculated MW: 24 kDa	
	Observed MW: 28-29 kDa	

Applications

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

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

*** 20ul sizes contain 0.1% BSA

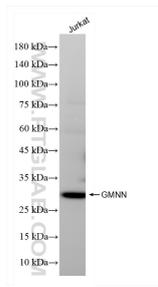
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

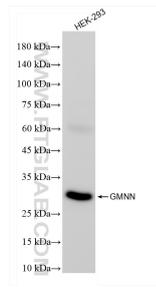
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

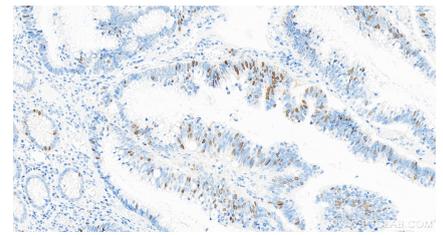
Selected Validation Data



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.



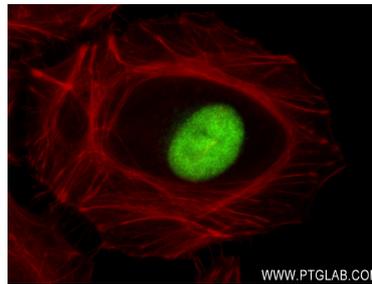
HEK-293 cells were subjected to SDS PAGE followed by western blot with 84199-2-RR (GMNN antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



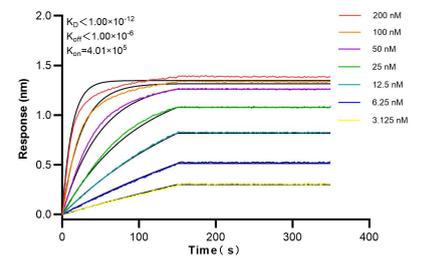
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 84199-2-RR (Geminin antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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