

## GMNN Monoclonal antibody

Catalog Number: 66566-1-Ig 1 Publications

## Basic Information

|                                      |  |   |
|--------------------------------------|--|---|
| Catalog Number:<br>66566-1-Ig        | GenBank Accession Number:<br>BC005185              | Purification Method:<br>Protein G purification                |
| Size:<br>1200 µg/ml                  | GeneID (NCBI):<br>51053                            | CloneNo.:<br>2E3A2  |
| Source:<br>Mouse                     | UNIPROT ID:<br>O75496                              | Recommended Dilutions:<br>WB 1:1000-1:6000<br>IHC 1:200-1:800 |
| Isotype:<br>IgG1                     | Full Name:<br>geminin, DNA replication inhibitor   |   |
| Immunogen Catalog Number:<br>AG24283 | Calculated MW:<br>24 kDa<br>Observed MW:<br>28 kDa |   |

## Applications

|  |  |
|--|--|
| Tested Applications:<br>IHC, WB, ELISA | Positive Controls:   |
| Cited Applications:<br>WB              | WB : HeLa cells, L02 cells, HEK-293 cells, NCCIT cells, Jurkat cells |
| Species Specificity:<br>Human          | IHC : human colon cancer tissue, human tonsillitis tissue            |
| Cited Species:<br>rat                  |  |

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

## 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 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 apparent mass of 42.5 kDa and 66 kDa are present. (PMID: 15313623)

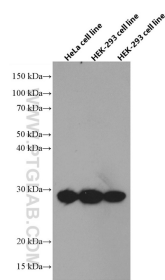
## Notable Publications

| Author          | Pubmed ID | Journal  | Application |
|-----------------|-----------|----------|-------------|
| Kellen D Winden | 37494191  | Cell Rep | WB          |

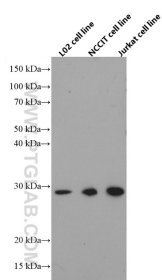
## Storage

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

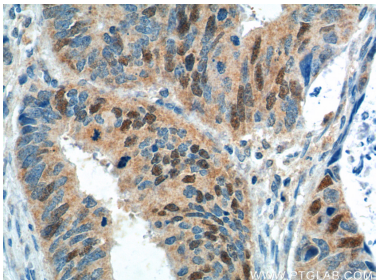
## Selected Validation Data



Various cells were subjected to SDS PAGE followed by western blot with 66566-1-Ig (GMNN antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66566-1-Ig (GMNN antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).