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KD-Validated Anti-Geminin DNA Replication Inhibitor Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1421

Product Information

Application	WB, ICC
Primary Accession	O75496
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB3475
Calculated MW	23565
Gene Name	GMNN
Aliases	GMNN; Geminin DNA Replication Inhibitor; Gem; Geminin; MGORS6
Immunogen	Recombinant protein of human Geminin

Additional Information

Gene ID	51053
Other Names	Geminin, GMNN

Protein Information

Name	GMNN
Function	Inhibits DNA replication by preventing the incorporation of MCM complex into pre-replication complex (pre-RC) (PubMed:14993212, PubMed:20129055, PubMed:24064211, PubMed:9635433). It is degraded during the mitotic phase of the cell cycle (PubMed:14993212, PubMed:24064211, PubMed:9635433). Its destruction at the metaphase- anaphase transition permits replication in the succeeding cell cycle (PubMed:14993212, PubMed:24064211, PubMed:9635433). Inhibits histone acetyltransferase activity of KAT7/HBO1 in a CDT1-dependent manner, inhibiting histone H4 acetylation and DNA replication licensing (PubMed:20129055). Inhibits the transcriptional activity of a subset of Hox proteins, enrolling them in cell proliferative control (PubMed:22615398).
Cellular Location	Cytoplasm. Nucleus. Note=Mainly cytoplasmic but can be relocalized to the nucleus.

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