



## Mouse anti-Human GMNN monoclonal antibody, clone 2B9 (CABT-B10340)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Immunogen</b>	GMNN (AAH05185, 110 a.a. ~ 209 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	2B9
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, IHC, IF, sELISA, ELISA
<b>Sequence Similarities</b>	LYEALKENEKLHKEIEQKDNEIARLKKENKELAEVAEHVQYMAELIERLNGEPLDNFESL DNQEFDSSEEETVEDSLVEDSEIGTCAEGTVSSSTDAKPCI
<b>Format</b>	Liquid
<b>Buffer</b>	In 1x PBS, pH 7.2
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

### BACKGROUND

<b>Introduction</b>	This gene encodes a protein that plays a critical role in cell cycle regulation. The encoded protein inhibits DNA replication by binding to DNA replication factor Cdt1, preventing the incorporation of minichromosome maintenance proteins into the pre-replication complex. The
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encoded protein is expressed during the S and G2 phases of the cell cycle and is degraded by the anaphase-promoting complex during the metaphase-anaphase transition. Increased expression of this gene may play a role in several malignancies including colon, rectal and breast cancer. Alternatively spliced transcript variants have been observed for this gene, and two pseudogenes of this gene are located on the short arm of chromosome 16. [provided by RefSeq, Oct 2011]

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**Keywords** GMNN; geminin, DNA replication inhibitor; Gem; geminin;

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## GENE INFORMATION

Entrez Gene ID	<a href="#">51053</a>
UniProt ID	<a href="#">O75496</a>
Pathway	Assembly of the pre-replicative complex, organism-specific biosystem; Association of licensing factors with the pre-replicative complex, organism-specific biosystem; CDT1 association with the CDC6:ORC:origin complex, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; DNA Replication, organism-specific biosystem; DNA Replication, organism-specific biosystem;
Function	histone deacetylase binding; protein binding; repressing transcription factor binding;

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