GMNN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GMNN, Polyclonal Antibody
Full Product Name	GMNN, ID (Y111) (GMNN, Geminin) (MaxLight 750)
Product Gene Name	anti-GMNN antibody
Product Synonym Names	GMNN; Geminin
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	209
OMIM	602842
3D Structure	ModBase 3D Structure for O75496
Immunogen	GMNN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 104-134 amino acids from the Central region of human GMNN.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-GMNN antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-GMNN antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-GMNN antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-GMNN antibody	GMNN inhibits DNA replication by preventing the incorporation of MCM complex into prereplication complex (pre-RC). It is degraded during the mitotic phase of the cell cycle. Its destruction at the metaphase-anaphase transition permits replication in the succeeding cell cycle.
Product References and Citations for anti-GMNN antibody	De Marco, V., et al. Proc. Natl. Acad. Sci. U.S.A. 106(47):19807-19812(2009). Zhu, W., et al. Cancer Res. 69(11):4870-4877(2009). Lu, F., et al. Biol. Cell 101(5):273-285(2009).
Other Notes	Small volumes of anti-GMNN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for GMNN purchase	MBS6302840 is an antibody targeting GMNN. Also known as GMNN, ID (Y111) (GMNN, Geminin) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GMNN. It may not necessarily be applicable to this product.

NCBI GI #	20454908
NCBI GeneID	51053
NCBI Accession #	O75496.1
UniProt Primary Accession #	O75496
UniProt Secondary Accession #	Q9H1Z1; B3KMM8
UniProt Related Accession #	O75496
NCBI Official Full Name	Geminin
NCBI Official Synonym Full Names	geminin, DNA replication inhibitor
NCBI Official Symbol	GMNN
NCBI Official Synonym Symbols	Gem
UniProt Protein Name	Geminin
Protein Family	Geminin
UniProt Gene Name	GMNN
UniProt Entry Name	GEMI_HUMAN
NCBI Protein Information	geminin
NCBI Summary for GMNN	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 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]
UniProt Comments for GMNN	Geminin: Inhibits DNA replication by preventing the incorporation of MCM complex into pre-replication complex (pre-RC). It is degraded during the mitotic phase of the cell cycle. Its destruction at the metaphase-anaphase transition permits replication in the succeeding cell cycle. Homotetramer. Interacts with CDT1; inhibits binding of the MCM complex to origins of replication. Interacts with IDAS; targets GMNN to the nucleus, prevents GMNN interaction with CDT1 and competes with IDAS homodimerization. Belongs to the geminin family. Protein type: Cell cycle regulation; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 6p22.3 Cellular Component: nucleoplasm; cytoplasm; cytosol; nucleus Molecular Function: protein binding; histone deacetylase binding; transcription corepressor activity Biological Process: organ morphogenesis; negative regulation of DNA replication; protein complex assembly; mitotic cell cycle; negative regulation of transcription, DNA-dependent; negative regulation of cell cycle
Research Articles on GMNN	**1.** Bound Geminin prevents transition of the pre-replicative complexes to a state that is competent for initiation of DNA replication.

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