

GEMC1 Rabbit pAb

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Catalog # AP55137

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	A6NCL1
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37887
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GEMC1
Epitope Specificity	41-140/334
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus (By similarity). Note=Associates with chromatin during pre-replication complex (pre-RC) formation (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GEMC1 is a 334 amino acid nuclear protein that regulates DNA replication by promoting the recruitment of Cdc45 onto replication origins. A member of the GEMC1 family, GEMC1 is highly phosphorylated and interacts with chromatin during formation of the pre-replication complex. The gene encoding GEMC1 maps to human chromosome 3, which is made up of about 214 million bases encoding over 1,100 genes. Notably, there is a chemokine receptor gene cluster and a variety of human cancer related loci on chromosome 3. Particular regions of the chromosome 3 short arm are deleted in many types of cancer cells. Key tumor suppressing genes on chromosome 3 encode apoptosis mediator RASSF1, cell migration regulator HYAL1 and angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3.

Additional Information

Gene ID	647309
Other Names	Geminin coiled-coil domain-containing protein 1, GMNC, GEMC1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GMNC
Synonyms	GEMC1
Function	Regulator of DNA replication. Promotes initiation of chromosomal DNA replication by mediating TOPBP1- and CDK2-dependent recruitment of CDC45L onto replication origins (By similarity).
Cellular Location	Nucleus. Note=Associates with chromatin during pre-replication complex (pre-RC) formation

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.