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Rabbit Anti-GEMC1 antibody

SL13332R

Product Name:	GEMC1
Chinese Name:	染色体卷曲螺旋域包含蛋白1抗体
Alias:	GEMC1; Geminin coiled coil domain containing protein 1; Gm606; GEMC1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	38kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GEMC1:41-140/334
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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.

Function:
Regulator of DNA replication. Promotes initiation of chromosomal DNA replication by mediating TOPBP1- and CDK2-dependent recruitment of CDC45L onto replication origins.

Subcellular Location:
Nucleus (By similarity). Note=Associates with chromatin during pre-replication complex (pre-RC) formation (By similarity).

Post-translational modifications:
Highly phosphorylated by CDK2; stimulates initiation of DNA replication.

Similarity:
Belongs to the GEMC1 family.

SWISS:
A6NCL1

Gene ID:
647309

Database links:

Entrez Gene: 647309Human

Entrez Gene: 239789Mouse

SwissProt: A6NCL1Human

SwissProt: Q3URY2Mouse

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.