



## Rabbit Anti-MCM7 antibody

SL10319R

<b>Product Name:</b>	MCM7
<b>Chinese Name:</b>	微小染色体维持缺陷蛋白7抗体
<b>Alias:</b>	CDABP0042; CDC 47; CDC47; CDC47 homolog; DNA replication licensing factor MCM7; Homolog of <i>S. cerevisiae</i> Cdc47; MCM 2; MCM 7; MCM2; Mcm7; MCM7 minichromosome maintenance deficient 7; MCM7_HUMAN; Minichromosome Maintenance 7; Minichromosome maintenance complex component 7; Minichromosome maintenance deficient 7; Minichromosome maintenance protein 7; P1.1 MCM3; P1.1-MCM3; PICDC47; P85MCM; PNAS 146; PNAS146.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,
<b>Applications:</b>	ELISA=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.
<b>Molecular weight:</b>	81kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human MCM7:1-100/719
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome

replication. The hexameric protein complex formed by the MCM proteins is a key component of the pre-replication complex (pre\_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. The MCM complex consisting of this protein and MCM2, 4 and 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumoursuppressor protein RB1/RB. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008].

**Function:**

Acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity. Required for S-phase checkpoint activation upon UV-induced damage.

**Subunit:**

Component of the MCM2-7 complex. The complex forms a toroidal hexameric ring with the proposed subunit order MCM2-MCM6-MCM4-MCM7-MCM3-MCM5 (By similarity). Interacts with the ATR-ATRIP complex and with RAD17. Interacts with TIPIN. Interacts with MCMBP.

**Subcellular Location:**

Nucleus.

**Post-translational modifications:**

Phosphorylated upon DNA damage, probably by ATM or ATR.

**Similarity:**

Belongs to the MCM family.

Contains 1 MCM domain.

**SWISS:**

P33993

**Gene ID:**

4176

**Database links:**

[Entrez Gene: 4176](#)Human

[Entrez Gene: 17220](#)Mouse

[Entrez Gene: 288532](#)Rat

[Omim: 600592](#)Human

[SwissProt: P33993](#)Human

[SwissProt: Q61881](#)Mouse

[Unigene: 438720](#)Human

[Unigene: 378965](#)Mouse

[Unigene: 113](#)Rat

**Important Note:**

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

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