



## Rabbit Anti-phospho-MCM2 (Ser27) antibody

SL18262R

<b>Product Name:</b>	phospho-MCM2 (Ser27)
<b>Chinese Name:</b>	磷酸化MCM2蛋白抗体
<b>Alias:</b>	MCM4 (phospho S27); MCM2(phospho-Ser27); MCM2(phospho Ser27); MCM2 (phospho S27); p-MCM2(Ser27); p-MCM2(S27); MCM2 (phospho S27); p-MCM2 (phospho S27); BM28; CCNL 1; CCNL1; CDC like 1; CDC like-1; cdc19; CDCL 1; CDCL1; Cell deivision cycle like 1; Cyclin like 1; cyclin like-1; D3S3194; DNA replication licensing factor MCM2; KIAA0030; MCM 2; MCM2; MCM2 minichromosome maintenance deficient 2 mitotin; MCM2 minichromosome maintenance deficient 2 mitotin (S. cerevisiae); MCM2 minichromosome maintenance deficient 2, mitotin; MCM2_HUMAN; MCM2_MOUSE; MGC10606; Minichromosome maintenance complex component 2; Minichromosome maintenance deficient 2 (mitotin); Minichromosome maintenance deficient 2 mitotin; Minichromosome maintenance protein 2; Minichromosome maintenance protein 2 homolog; Mitotin; Nuclear protein BM28; OTTHUMP00000216047; OTTHUMP00000216050.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Rabbit,
<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>	101kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthesised phosphopeptide derived from human MCM2 around the phosphorylation site of Ser27:TS(p-S)PG
<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>	<p>The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in the initiation of eukaryotic genome replication. The hexameric protein complex formed by 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. This protein forms a complex with MCM4, 6, and 7, and has been shown to regulate the helicase activity of the complex. This protein is phosphorylated, and thus regulated by, protein kinases CDC2 and CDC7. Multiple alternatively spliced transcript variants have been found, but the full-length nature of some variants has not been defined. [provided by RefSeq, Oct 2012]</p> <p><b>Function:</b> 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 the entry in S phase and for cell division.</p> <p><b>Subunit:</b> Component of the MCM2-7 complex. The complex forms a toroidal hexameric ring with the proposed subunit order MCM2-MCM6-MCM4-MCM7-MCM3-MCM5. Interacts with KAT7 and DBF4. May interact with MCM10. Subcellular Location : Nucleus (Probable).</p> <p><b>Subcellular Location:</b> Cytoplasm. Nucleus. Isoform LIMK2a is distributed in the cytoplasm and the nucleus and Cytoplasm. Nucleus. Isoform LIMK2b occurs mainly in the cytoplasm and is scarcely translocated to the nucleus.</p> <p><b>Post-translational modifications:</b> Phosphorylated on Ser-108 by ATR in proliferating cells. Ser-108 proliferation is increased by genotoxic agents. Ser-40 is mediated by the CDC7-DBF4 and CDC7-DBF4B complexes, while Ser-53 phosphorylation is only mediated by the CDC7-DBF4 complex. Phosphorylation by the CDC7-DBF4 complex during G1/S phase is required for the initiation of DNA replication.</p>

**Similarity:**

Belongs to the MCM family. Contains 1 MCM domain.

**SWISS:**

P49736

**Gene ID:**

4171

**Database links:**

[Entrez Gene: 4171](#)Human

[Entrez Gene: 17216](#)Mouse

[Entrez Gene: 312538](#)Rat

[Omim: 116945](#)Human

[SwissProt: P49736](#)Human

[SwissProt: P97310](#)Mouse

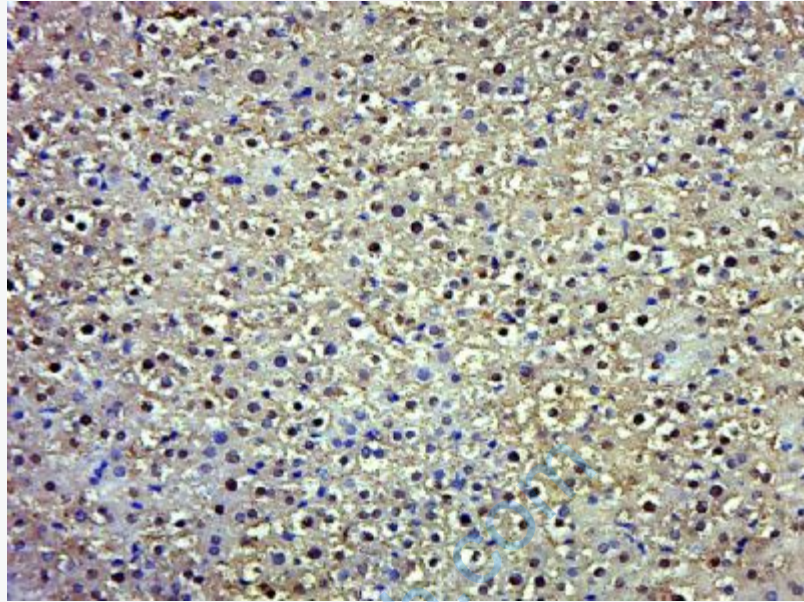
[Unigene: 477481](#)Human

[Unigene: 16711](#)Mouse

[Unigene: 2715](#)Rat

**Important Note:**

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



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-MCM2 (Ser27)) Polyclonal Antibody, Unconjugated (SL18262R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.