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**Product Name: MCM2 Mouse Monoclonal Antibody****Catalog #: AMM81033**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,ELISA,FC
<b>Reactivity</b>	Human,Mouse,Rat,Monkey
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	125kDa

**Antigen Information**

<b>Gene Name</b>	MCM2
<b>Alternative Names</b>	BM28; CCNL1; CDCL1; cdc19; D3S3194; MITOTIN; KIAA0030; MGC10606
<b>Gene ID</b>	4171.0
<b>SwissProt ID</b>	P49736
<b>Immunogen</b>	Purified recombinant fragment of human MCM2 expressed in E. Coli.

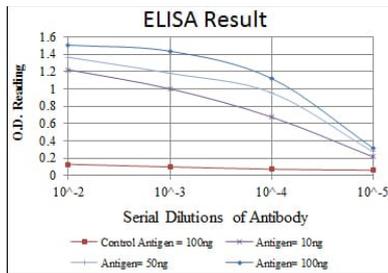
**Background**

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

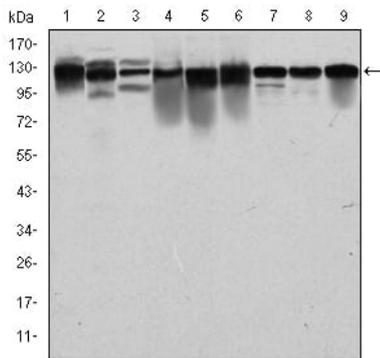
recruitment of other DNA replication related proteins. This protein forms a complex with MCM4, 6, and 7, and has been shown to regulate the helicase activity of the complex. This protein is phosphorylated, and thus regulated by, protein kinases CDC2 and CDC7.

## Research Area

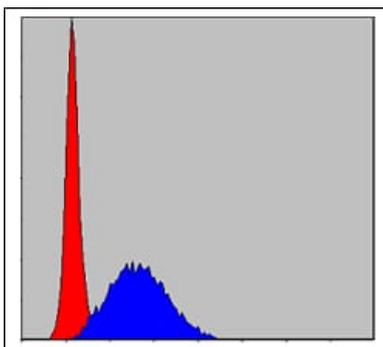
## Image Data



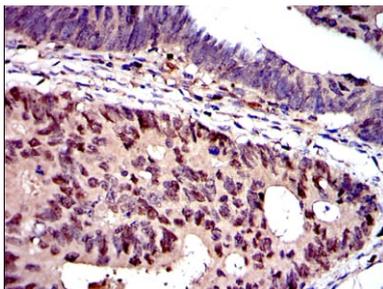
Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);



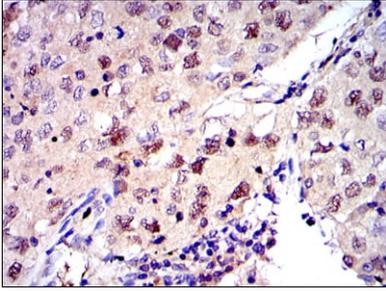
Western blot analysis using MCM2 mouse mAb against PC-12 (1), Cos7 (2), NIH/3T3 (3), HepG2 (4), HEK293 (5), K562 (6), Jurkat (7), Hela (8) and MCF-7 (9) cell lysate.



Flow cytometric analysis of Hela cells using MCM2 mouse mAb (blue) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissues using MCM2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissues using MCM2 mouse mAb with DAB staining.