

Product Name: MCM3 Mouse Monoclonal Antibody
Catalog #: AMM82938



Summary

Production Name	MCM3 Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,FC
Reactivity	Human,Rat,Monkey

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Immunogen

Gene Name	MCM3
Alternative Names	HCC5; P1.h; RLFB; P1-MCM3
Gene ID	4172.0
SwissProt ID	P25205.Purified recombinant fragment of human MCM3 expressed in E. Coli.

Application

Dilution Ratio	WB:1:500-1:2000,IHC:1:200-1:1000,ICC:1:50-1:200,FC:1:200-1:400
Molecular Weight	91kDa

Background

The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are

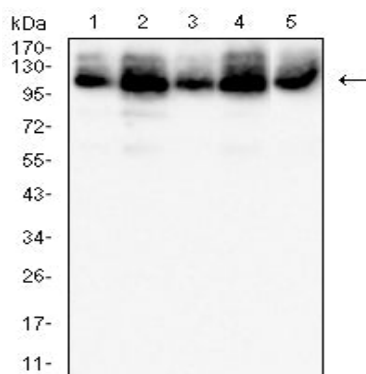
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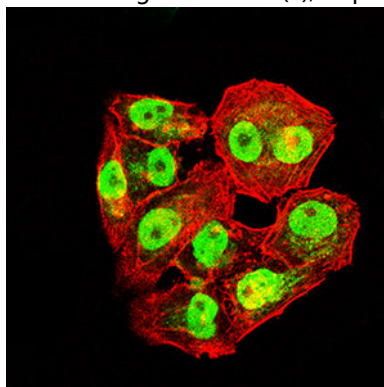
involved in the initiation of eukaryotic genome replication. The hexameric protein complex formed by MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein is a subunit of the protein complex that consists of MCM2-7. It has been shown to interact directly with MCM5/CDC46. This protein also interacts with and is acetylated by MCM3AP, a chromatin-associated acetyltransferase. The acetylation of this protein inhibits the initiation of DNA replication and cell cycle progression. Several transcript variants encoding different isoforms have been found for this gene.

Research Area

Image Data

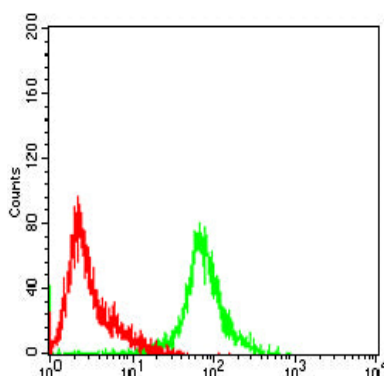


Western blot analysis using MCM3 mouse mAb against PC-12 (1), HepG2 (2), HeLa (3) and COS7 (4) cell lysate.

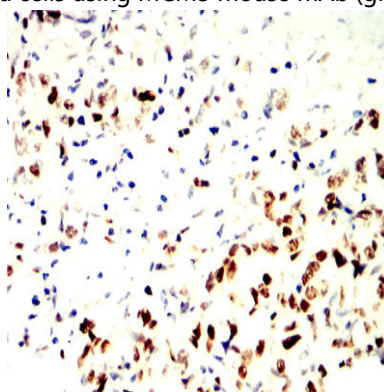


Immunofluorescence analysis of HeLa cells using MCM3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

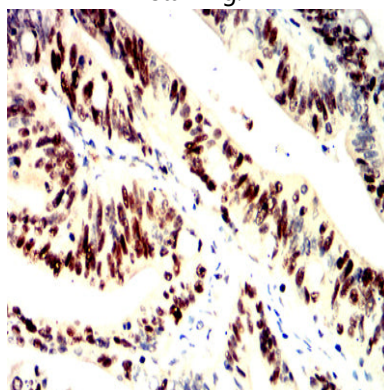
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Flow cytometric analysis of Hela cells using MCM3 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissues using MCM3 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using MCM3 mouse mAb with DAB staining.

Note

For research use only.