MCM3 Rabbit mAb

Catalog No: #49847

Package Size: #49847-1 50ul #49847-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

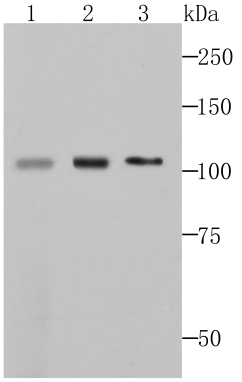
Description

Product Name	MCM3 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JB99-35
Purification	ProA affinity purified
Applications	WB,ICC,IF,IHC,FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Other Names	Cervical cancer proto oncogene 5 antibody DNA polymerase alpha holoenzyme associated P1 antibody DNA polymerase alpha holoenzyme associated protein P1 antibody DNA polymerase alpha holoenzyme-associated protein P1 antibody DNA replication factor MCM3 antibody DNA replication licensing factor mcm3 antibody HCC 5 antibody HCC5 antibody hRlf beta subunit antibody Human cervical cancer proto oncogene 5 antibody MCM 3 antibody mcm3 antibody MCM3 minichromosome maintenance deficient 3 antibody MCM3_HUMAN antibody MGC1157 antibody Minichromosome maintenance complex component 3 antibody Minichromosome maintenance deficient 3 antibody Minichromosome maintenance protein 3 antibody P1 h antibody P1 MCM3 antibody P1 Protein antibody P1-MCM3 antibody P1.h antibody p102 antibody P102 protein antibody Replication licensing factor beta subunit antibody RLF beta subunit antibody RLF subunit beta antibody RLFB antibody
Accession No.	Swiss-Prot#:P25205
Uniprot	P25205
GeneID	4172;
Calculated MW	102 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

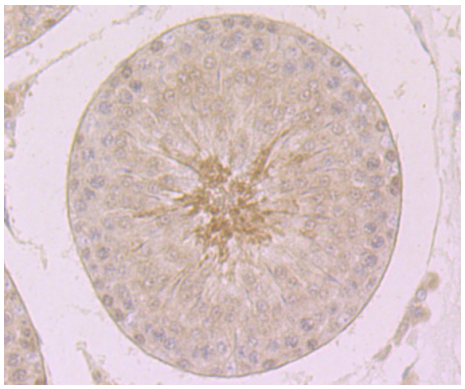
Application Details

WB: 1:500-1:1,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

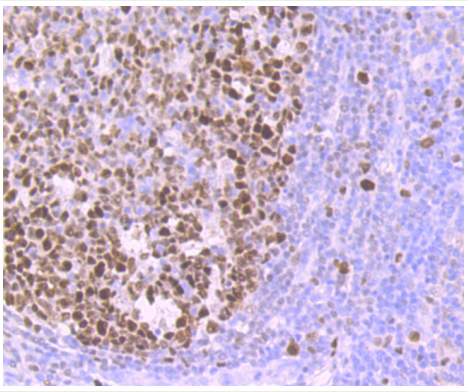
Images



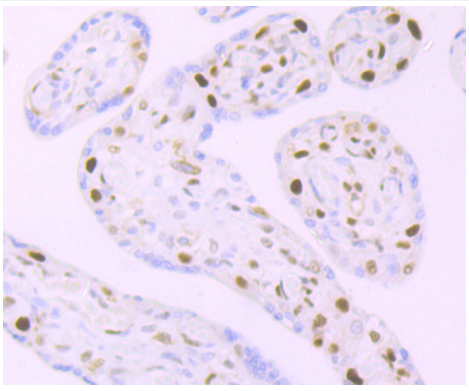
Western blot analysis of MCM3 on mouse thymus tissue (1), NIH-3T3 cell (2) and Hela (3)cell lysates using anti-MCM3 antibody at 1/500 dilution.



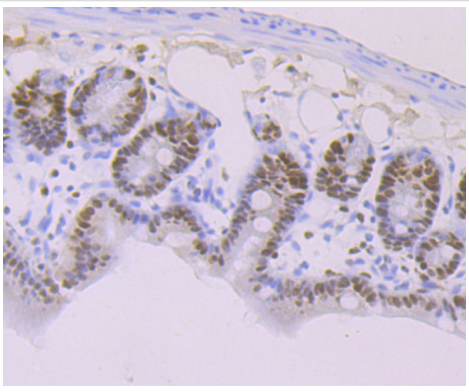
Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-MCM3 antibody. Counter stained with hematoxylin.



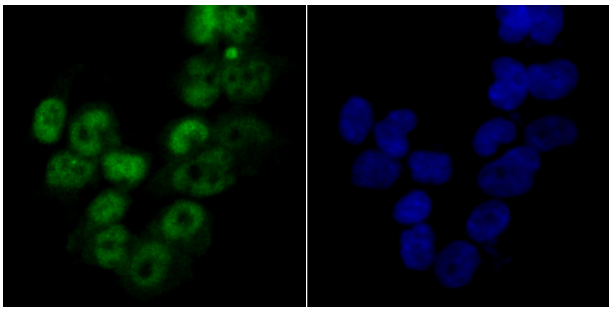
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-MCM3 antibody. Counter stained with hematoxylin.



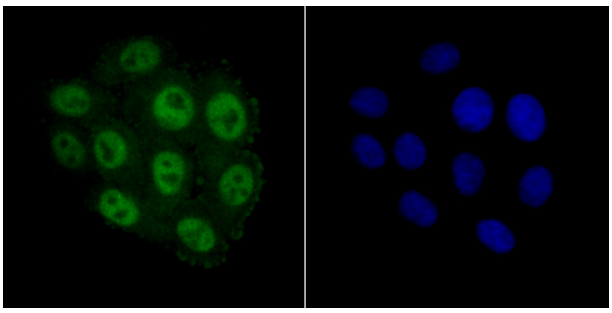
Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-MCM3 antibody. Counter stained with hematoxylin.



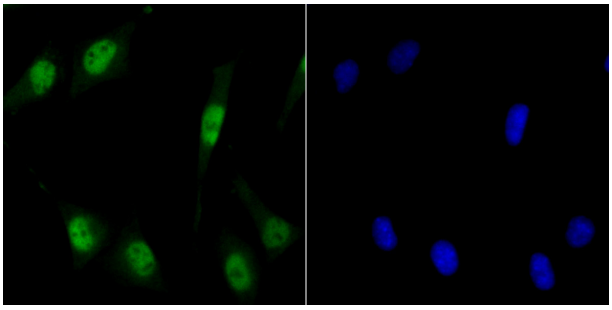
Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue using anti-MCM3 antibody. Counter stained with hematoxylin.



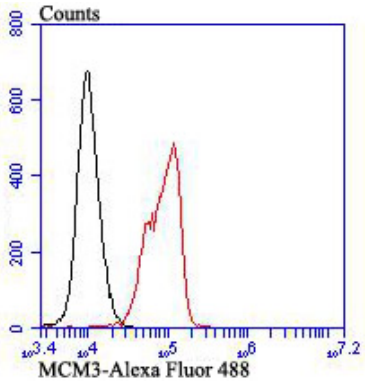
ICC staining MCM3 in 293T cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining MCM3 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining MCM3 in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of K562 cells with MCM3 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

The mini-chromosome maintenance (MCM) family of proteins, including MCM2, MCM3, MCM4 (Cdc21), MCM5 (Cdc46), MCM6 (Mis5) and MCM7 (Cdc47), are regulators of DNA replication that act to ensure replication occurs only once in the cell cycle. Expression of MCM proteins increases during cell growth, peaking at G1 to S phase. The MCM proteins each contain an ATP-binding motif, which is predicted to mediate ATP-dependent opening of double-stranded DNA. MCM proteins are regulated by E2F transcription factors, which induce MCM expression, and by protein kinases, which interact with MCM proteins to maintain the postreplicative state of the cell. MCM2/MCM4 complexes function as substrates for Cdc2/cyclin B in vitro. Cleavage of MCM3, which can be prevented by caspase inhibitors, results in the inactivation during apoptosis of the MCM complex, which is composed of, at least, MCM2C6. A complex composed of MCM4, MCM6 and MCM7 has been shown to be involved in DNA helicase activity, and

MCM5 is involved in IFN-γ-induced Stat1α transcription activation.

References

Note: This product is for in vitro research use only