
Product Name: KD-Validated MCM5 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVAb00731**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 82.3kDa

Antigen Information

Gene Name	MCM5
Alternative Names	MCM5; Minichromosome Maintenance Complex Component 5; CDC46; DNA Replication Licensing Factor MCM5; CDC46 Homolog; P1-CDC46; MCM5 Minichromosome MaintenanceDeficient 5, Cell Division Cycle 46 (S. Cerevisiae); Minichromosome Maintenance Deficient (S. Cerevisiae) 5 (Cell Division Cycle 46); MCM5 Minichromosome Maintenance Deficient 5, Cell Division Cycle 46; Minichromosome Maintenance Deficient 5 (Cell Division Cycle 46); EC 3.6.4.12; MGORS8
Gene ID	4174.0
SwissProt ID	P33992
Immunogen	A synthesized peptide derived from human MCM5

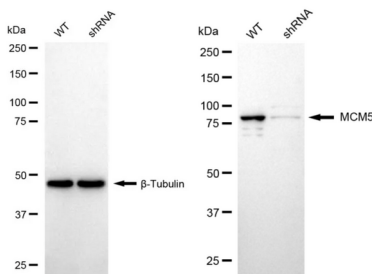
Background

The protein encoded by this gene is structurally very similar to the CDC46 protein from *S. cerevisiae*, a protein involved in the initiation of DNA replication. The encoded protein is a member of the MCM family of chromatin-binding proteins and can interact with at least two other members of this family. The encoded protein is upregulated in the transition from the G0 to G1/S phase of the cell cycle and may actively participate in cell cycle regulation. [provided by RefSeq, Jul 2008]

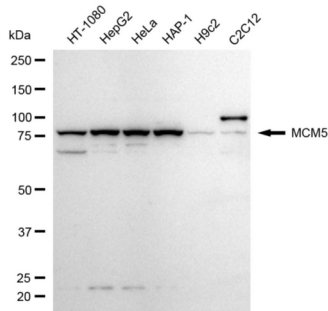
Research Area

Epigenetics and Nuclear Signaling

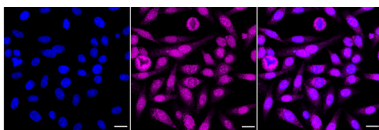
Image Data



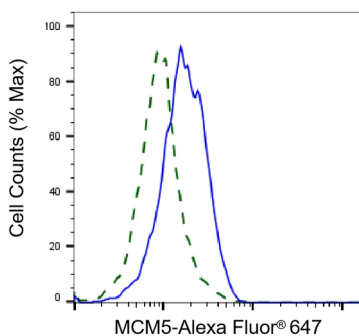
Western blotting analysis using MCM5 antibody (KVA00731). MCM5 expression in wild-type (WT) and MCM5 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with MCM5 antibody (KVA00731, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



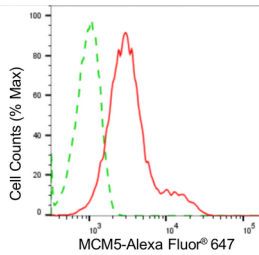
Western blotting analysis using MCM5 antibody (KVA00731). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MCM5 antibody (KVA00731, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. MCM5, minichromosome maintenance complex component 5.



Immunocytochemical staining of HepG2 cells with MCM5 antibody (KVA00731, 1:1,000). Nuclei were stained blue with DAPI; MCM5 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of MCM5 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with MCM5 antibody (KVA00731, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of MCM5 expression in HepG2 cells using MCM5 antibody (KVA00731, 1:2,000). Green, isotype control; red, MCM5.