

Human MCM7 antibody

Catalog Number: ATGA0481

PRODUCT INFORMATION

Catalog number

ATGA0481

Clone No.

AT118H7

Product type

Monoclonal Antibody

UnitProt No.

P33993

NCBI Accession No.

NP_877577

Alternative Names

DNA replication licensing factor MCM7 isoform 2, CDC47, MCM2, P1.1-MCM3, P1CDC47, P85MCM, PNAS146

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human MCM7 (1-414aa) purified from E. coli.

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot analysis and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

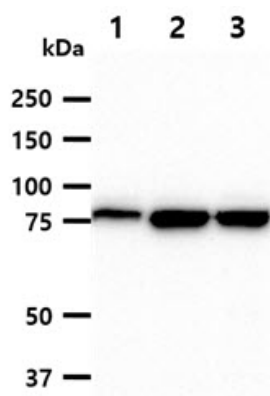
MCM7 is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by the MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. The MCM complex consisting of this protein and MCM2, 4 and 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumorsuppressor protein RB1/RB.

General References

Zhou Y.M., et al. (2012) *Liver Int.* 32(10): 1505-1509.
Liu,Y.Liu Y.Z., et al. (2012) *Lung Cancer.* 77(1): 176-182.

DATA

Western blot analysis (WB)



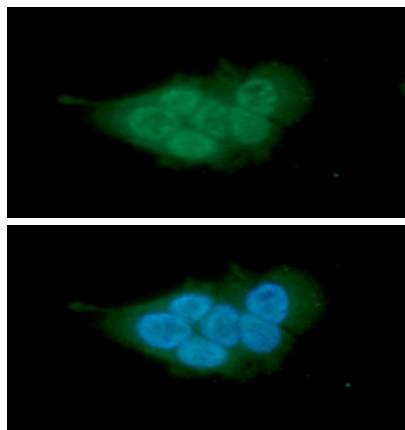
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MCM7 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate

Lane 2.: Jurkat cell lysate

Lane 3.: K562 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of MCM7 in MCF7 cells. The cell was stained with ATGA0481 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).