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## **Human MCM7 antibody**

Catalog Number: ATGA0489

## **PRODUCT INFORMATION**

## Catalog number

ATGA0489

### Clone No.

AT1G8

## **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

IgG2b kappa

## **Purification Note**

By protein-A affinity chromatography

## **Application**

ELISA, WB, FACS

## Usage

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



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## **Storage**

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**

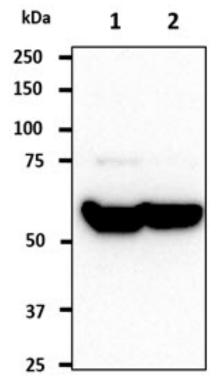
MCM7 is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by the MCM proteins is a key component of the pre-replication complex (pre\_RC) and may be involved in the formation 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.Z., et al. (2012) Lung Cancer 77(1), 176-182.

## **DATA**

## Western blot analysis (WB)



Flow cytometry (FACS)

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.

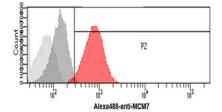
Lane 1.: HeLa cell lysate Lane 2.: HepG2 cell lysate



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Flow cytometry analysis of MCM7 in HeLa cells. The cell was stained with ATGA0489 at 2-5ug for 1x106cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

