

For Research Use Only

# MCM7 Monoclonal antibody

Catalog Number: 67446-1-Ig



## Basic Information

**Catalog Number:**

67446-1-Ig

**GenBank Accession Number:**

BC013375

**Purification Method:**

Protein G purification

**Size:**

150ul, Concentration: 1100 ug/ml by Nanodrop and 500 ug/ml by Bradford method using BSA as the standard;

**GeneID (NCBI):**

4176

**CloneNo.:**

1G1F6

**Source:**

Mouse

**UNIPROT ID:**

P33993

**Recommended Dilutions:**

WB 1:5000-1:50000

**Isotype:**

IgG1

**Full Name:**

minichromosome maintenance complex component 7

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:1000-1:4000

**Immunogen Catalog Number:**

AG28558

**Calculated MW:**

81 kDa

**Observed MW:**

85 kDa

## Applications

**Tested Applications:**

WB, IP, IHC, ELISA

**Positive Controls:**

WB: A431 cells, HeLa cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells

**Species Specificity:**

Human, mouse, rat

IP: HeLa cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

IHC: human breast cancer tissue, human lung cancer tissue

## Background Information

MCM7, also named as CDC47 homolog or P1.1-MCM3, is a 719 amino acid protein, which belongs to the MCM family. MCM7 acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The MCM2-7 complex participates in the pre-replication complex formation and exhibits helicase activity which makes DNA unwind, and resulting in recruitment of DNA polymerases and initiation of DNA replication and elongation [PMID: 29463213]. An immunohistochemical study has shown that MCM7 is increased in HCC. Silencing of MCM7 with shRNA inhibits the malignant behavior of HCC cells via cell cycle arrest and apoptosis [[PMID: 29463213].

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

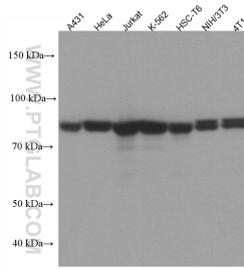
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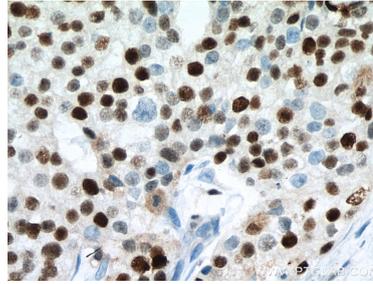
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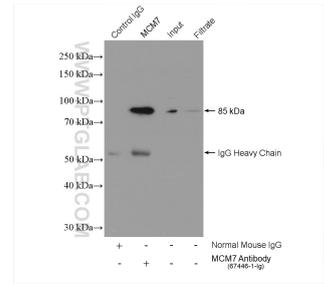
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67446-1-Ig (MCM7 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67446-1-Ig (MCM7 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-MCM7 (IP:67446-1-Ig, 4ug; Detection:67446-1-Ig 1:2000) with HeLa cells lysate 1040 ug.