MCM7
Polyclonal ANTIBODY
Catalog Number: 11225-1-AP

Basic Information
- Catalog Number: 11225-1-AP
- Source: Rabbit
- Isotype: IgG
- Purification Method: Antigen affinity purification

GenBank Accession Number: BC013375
- Gene ID (NCBI): 4176
- Full Name: minichromosome maintenance complex component 7
- Calculated MW: 81 kDa
- Observed MW: 81 kDa

Recommended Dilutions:
- WB: 1:1000-1:6000
- IP: 0.5-4.0 μg for IP and 1:1000-1:4000 for WB
- IHC: 1:50-1:500

Applications
- Tested Applications: FC, IF, IHC, IP, WB, ELISA
- Cited Applications: CoIP, IHC, WB
- Species Specificity: human, mouse
- Cited Species: human, mouse

Recommended Dilutions:
- WB: 1:1000-1:6000
- IP: 0.5-4.0 μg for IP and 1:1000-1:4000 for WB
- IHC: 1:50-1:500

Positive Controls:
- WB: NIH/3T3 cells, A431 cells, HeLa cells, MCF-7 cells
- IP: NIH/3T3 cells
- IHC: human lung cancer tissue, human lymphoma tissue
- IF: NIH/3T3 cells

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].

Notable Publications
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<th>Author</th>
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<tr>
<td>Yi Zhu</td>
<td>30365225</td>
<td>Proteomics Clin Appl</td>
<td>IHC</td>
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<tr>
<td>Hongyuan Song</td>
<td>2960342</td>
<td>Biomaterials</td>
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<tr>
<td>Yinan Mi</td>
<td>26285216</td>
<td>Oncotarget</td>
<td>WB, CoIP</td>
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Storage
- Store at -20°C. Stable for one year after shipment.
- Storage Buffer: PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- Aliquoting is unnecessary for -20°C storage.

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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NIH/3T3 cells were subjected to SDS-PAGE followed by western blot with 11225-1-AP MCM7 Antibody at dilution of 1:3000 incubated at room temperature for 1.5 hours.


Immunohistochemistry of paraffin-embedded human lung cancer tissue slide using 11225-1-AP (MCM7 Antibody) at dilution of 1:200 (under 40x lens)

Immunofluorescent analysis of 10% Formaldehyde fixed NIH/3T3 cells using 11225-1-AP MCM7 antibody at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) 1X10^6 Raji cells were stained with 0.2ug MCM7 antibody (11225-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA for 30 min, Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.