

# Phospho-MCM2 (Ser27) Rabbit mAb

Catalog # AP76348

## Product Information

|                   |                           |
|-------------------|---------------------------|
| Application       | WB, IHC-P, IHC-F, IP, ICC |
| Primary Accession | <a href="#">P49736</a>    |
| Reactivity        | Human                     |
| Host              | Rabbit                    |
| Clonality         | Monoclonal Antibody       |
| Calculated MW     | 101896                    |

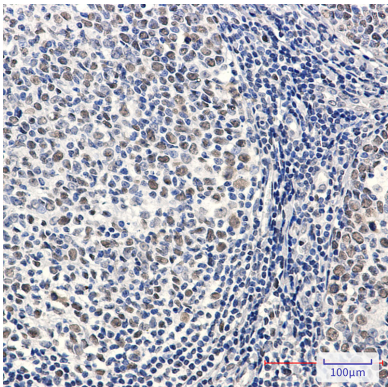
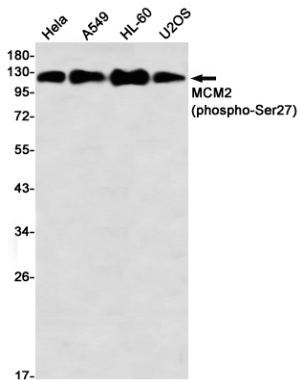
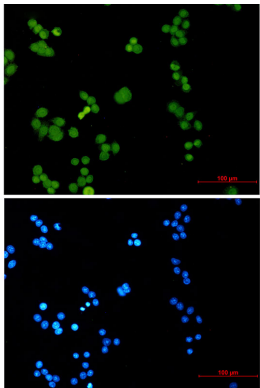
## Additional Information

|             |  |
|-------------|--|
| Gene ID     | 4171   |
| Other Names | MCM2   |
| Dilution    | WB~~1/500-1/1000 IHC-P~~N/A IHC-F~~N/A IP~~N/A ICC~~N/A                                  |
| Format      | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.    |
| Storage     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |

## Protein Information

|                   |  |
|-------------------|--|
| Name              | MCM2 ( <a href="#">HGNC:6944</a> )   |
| Function          | Acts as a component of the MCM2-7 complex (MCM complex) which is the replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. Core component of CDC45-MCM-GINS (CMG) helicase, the molecular machine that unwinds template DNA during replication, and around which the replisome is built (PubMed: <a href="#">32453425</a> , PubMed: <a href="#">34694004</a> , PubMed: <a href="#">34700328</a> , PubMed: <a href="#">35585232</a> ). The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity (PubMed: <a href="#">32453425</a> ). Required for the entry in S phase and for cell division (PubMed: <a href="#">8175912</a> ). Plays a role in terminally differentiated hair cells development of the cochlea and induces cells apoptosis (PubMed: <a href="#">26196677</a> ). |
| Cellular Location | Nucleus. Chromosome. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses.<br>{ECO:0000250 UniProtKB:P55861}   |

Images



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