

Phospho-MCM2 (Ser27) Rabbit mAb

Catalog # AP76348

Specification

Phospho-MCM2 (Ser27) Rabbit mAb - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW WB, IHC, IF <u>P49736</u> Human Rabbit Monoclonal Antibody 101896

Phospho-MCM2 (Ser27) Rabbit mAb - Additional Information

Gene ID 4171

Other Names MCM2

Dilution WB~~1/500-1/1000 IHC~~1/50-1/100 IF~~1/50-1/200

Format Liquid

Phospho-MCM2 (Ser27) Rabbit mAb - Protein Information

Name MCM2 (<u>HGNC:6944</u>)

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:32453425, PubMed:34694004, PubMed:34700328, PubMed:35585232). 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:32453425). Required for the entry in S phase and for cell division (PubMed:8175912). Plays a role in terminally differentiated hair cells development of the cochlea and induces cells apoptosis



(PubMed:26196677).

Cellular Location

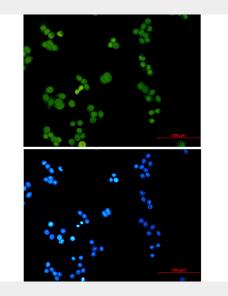
Nucleus. Chromosome. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses. {ECO:0000250|UniProtKB:P55861}

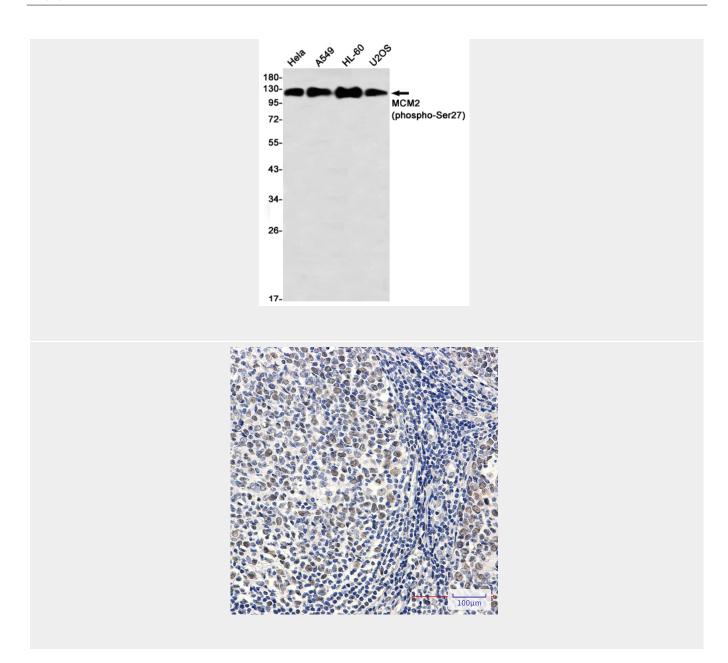
Phospho-MCM2 (Ser27) Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Phospho-MCM2 (Ser27) Rabbit mAb - Images





abcepta