

Phospho-MCM2 (S27) Antibody
Rabbit mAb
Catalog # AP92869**Specification****Phospho-MCM2 (S27) Antibody - Product Information**

| | |
|---|------------------------|
| Application | WB, IHC, ICC, IP |
| Primary Accession | P49736 |
| Reactivity | Rat |
| Clonality | Monoclonal |
| Other Names | |
| BM28; CCNL1; cdc19; CDCL1; Cyclin like 1; MCM2; | |
| Isotype | Rabbit IgG |
| Host | Rabbit |
| Calculated MW | 101896 Da |

Phospho-MCM2 (S27) Antibody - Additional Information

| | |
|------------------------------|---|
| Dilution | WB~~1:1000 IHC~~1:100~500 ICC~~N/A IP~~N/A |
| Purification | Affinity-chromatography |
| Immunogen | A synthesized peptide derived from human Phospho-MCM2 (S27) |
| Description | 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. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

Phospho-MCM2 (S27) Antibody - Protein InformationName MCM2 ([HGNC:6944](#))**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](http://www.uniprot.org/citations/32453425)), PubMed:[34694004](http://www.uniprot.org/citations/34694004)), PubMed:[34700328](http://www.uniprot.org/citations/34700328)), PubMed:[34700328](http://www.uniprot.org/citations/34700328)), PubMed:[34700328](http://www.uniprot.org/citations/34700328))

[35585232](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/32453425)). Required for the entry in S phase and for cell division (PubMed: [8175912](http://www.uniprot.org/citations/8175912)). Plays a role in terminally differentiated hair cells development of the cochlea and induces cells apoptosis (PubMed: [26196677](http://www.uniprot.org/citations/26196677)).

Cellular Location

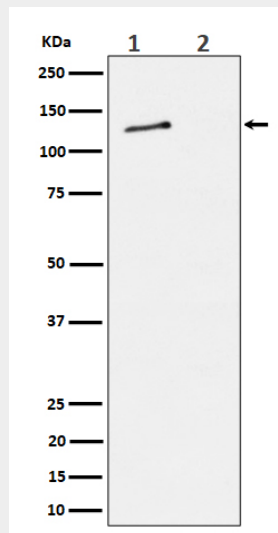
Nucleus. Chromosome. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses. {ECO:0000250|UniProtKB:P55861}

Phospho-MCM2 (S27) Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-MCM2 (S27) Antibody - Images



Western blot analysis of Phospho-MCM2 (S27) expression in (1) HeLa cell lysate; (2) HeLa cell treated with alkaline phosphatase lysate.