

MCM4 Antibody

Rabbit mAb

Catalog # AP92444

Product Information

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|--------------------------|---------------------------------|
| Application | WB, FC, IP |
| Primary Accession | P33991 |
| Reactivity | Human, Mouse |
| Clonality | Monoclonal |
| Other Names | CDC21; CDC54; hCdc21; P1-CDC21; |
| Isotype | Rabbit IgG |
| Host | Rabbit |
| Calculated MW | 96558 |

Additional Information

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|-------------------------------------|---|
| Dilution | WB 1:1000~1:5000 IP 1:50 FC 1:100 |
| Purification | Affinity-chromatography |
| Immunogen | A synthesized peptide derived from human MCM4 |
| 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. |

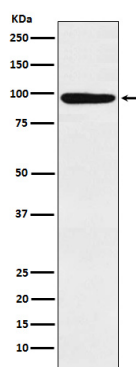
Protein Information

| | |
|-----------------|---|
| Name | MCM4 (HGNC:6947) |
| Synonyms | CDC21 |
| 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: 16899510 , PubMed: 25661590 , PubMed: 32453425 , PubMed: 34694004 , PubMed: 34700328 , PubMed: 35585232 , PubMed: 9305914). 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: 16899510 , PubMed: 25661590 , PubMed: 32453425 , PubMed: 9305914). |

Cellular Location

Nucleus. Chromosome. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses.

Images



Western blot analysis of MCM4 expression in Molt-4 cell lysate.

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