# MCM4 rabbit monoclonal antibody

Catalog # H00004173-K Size 100 ug x up to 3

## Specification

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| **Product Description** | Rabbit monoclonal antibody raised against a human MCM4 peptide using ARM Technology. |
| **Immunogen** | A synthetic peptide of human MCM4 is used for rabbit immunization.<br>Customer or Abnova will decide on the preferred peptide sequence. |
| **Host** | Rabbit |
| **Library Construction** | Non-fusion antibody library from rabbit spleen (ARM Technology). |
| **Expression** | Overexpression vector and transfection into 293H cell line. |
| **Reactivity** | Human |
| **Purification** | Protein A |
| **Isotype** | IgG |
| **Quality Control Testing** | Antibody reactive against human MCM4 peptide by ELISA and mammalian transfected lysate by We stern Blot. |
| **Storage Buffer** | In 1x PBS, pH 7.4 |
| **Storage Instruction** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |
| **Deliverable** | Up to three rabbit IgG clones of 100 ug each will be delivered to customer. |
| **Note** | 1. Customer may provide cell or tissue lysate for antibody screening.<br>2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering in cluding $F(ab)_2$, IgG, scFv and different Fc and non-Fc conjugates per customer request. |

## Applications

- Western Blot (Transfected lysate)

  Protocol Download

- ELISA

## Gene Info — MCM4

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| **Entrez GeneID** | 4173 |
| **GeneBank Accession#** | MCM4 |
| **Gene Name** | MCM4 |
| **Gene Alias** | CDC21, CDC54, MGC33310, P1-CDC21, hCdc21 |
| **Gene Description** | minichromosome maintenance complex component 4 |
| **Omim ID** | 602638 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. The MCM complex consisting of this protein and MCM2, 6 and 7 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. The phosphorylation of this protein by CDC2 kinase reduces the DNA helicase activity and chromatin binding of the MCM complex. This gene is mapped to a region on the chromosome 8 head-to-head next to the PRKDC/DNA-PK, a DNA-activated protein kinase involved in the repair of DNA double-strand breaks. Alternatively spliced transcript variants encoding the same protein have been reported. [provided by RefSeq |
| **Other Designations** | DNA replication licensing factor MCM4\|MCM4 minichromosome maintenance deficient 4\|homolog of S. pombe cell devision cycle 21\|minichromosome maintenance deficient 4 |

## Pathway

- Cell cycle
- DNA replication

## Disease

- Genetic Predisposition to Disease
- Hematologic Diseases

- Occupational Diseases