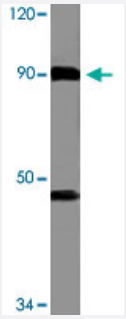
# MCM4 polyclonal antibody

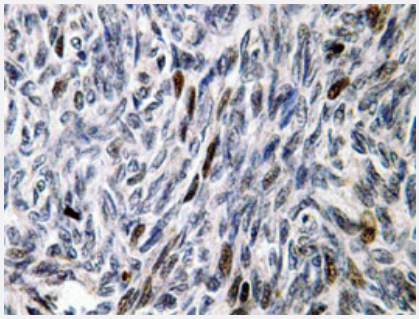
Catalog # PAB26993 Size 100 uL

## Applications




### Western Blot (Cell lysate)

Western blot analysis of HeLa cell lysate with MCM4 polyclonal antibody (Cat # PAB26993) at 1:500 dilution.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human testis tissue using MCM4 polyclonal antibody (Cat # PAB26993).

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of MCM4. |
| **Immunogen** | A synthetic peptide corresponding to human MCM4. |
| **Host** | Rabbit |
| **Theoretical MW (kDa)** | ~90.0 |
| **Reactivity** | Human, Mouse |
| **Specificity** | MCM4 polyclonal antibody detects endogenous levels of MCM4 protein. |
| **Form** | Liquid |

| | |
|---|---|
| **Purification** | Antigen affinity purification |
| **Recommend Usage** | Western Blot (1:500-1:1000)<br>Immunohistochemistry (1:50-1:200)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH 7.2 (0.09% sodium azide) |
| **Storage Instruction** | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Western Blot (Cell lysate)

  Western blot analysis of HeLa cell lysate with MCM4 polyclonal antibody (Cat # PAB26993) at 1:500 dilution.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human testis tissue using MCM4 polyclonal antibody (Cat # PAB26993).

## Gene Info — MCM4

| | |
|---|---|
| **Entrez GeneID** | 4173 |
| **Protein Accession#** | P33991 |
| **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