



Anti-MCM3 (aa 699-808) polyclonal antibody (DPAB-DC1903)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

| | |
|----------------------------|--|
| Antigen Description | The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in 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. This protein is a subunit of the protein complex that consists of MCM2-7. It has been shown to interact directly with MCM5/CDC46. This protein also interacts with and is acetylated by MCM3AP, a chromatin-associated acetyltransferase. The acetylation of this protein inhibits the initiation of DNA replication and cell cycle progression. Two transcript variants encoding different isoforms have been found for this gene. |
| Immunogen | MCM3 (NP_002379, 699 a.a. ~ 808 a.a) partial recombinant protein with GST tag. The sequence is AKDGDSYDPYDFSDTEEMPQVHTPKTADSQETKESQKVELSESRLKAFKVALLDVFREE HAQSIGMNRLTESINRDSEEPFSSVEIQAALSKMQDDNQVMVSEGIIFLI |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Conjugate | Unconjugated |
| Applications | WB (Cell lysate), WB (Recombinant protein), ELISA, |
| Size | 50 µl |
| Buffer | 50 % glycerol |
| Preservative | None |

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

| | |
|---------------------|---|
| Gene Name | MCM3 minichromosome maintenance complex component 3 [Homo sapiens (human)] |
| Official Symbol | MCM3 |
| Synonyms | MCM3; minichromosome maintenance complex component 3; HCC5; P1.h; RLFB; P1-MCM3; DNA replication licensing factor MCM3; p102; RLF subunit beta; hRlf beta subunit; DNA replication factor MCM3; cervical cancer proto-oncogene 5; minichromosome maintenance deficient 3; replication licensing factor, beta subunit; MCM3 minichromosome maintenance deficient 3; DNA polymerase alpha holoenzyme-associated protein P1; |
| Entrez Gene ID | 4172 |
| Protein Refseq | NP_001257401 |
| UniProt ID | B4DUQ9 |
| Chromosome Location | 6p12 |
| Pathway | Activation of ATR in response to replication stress; Assembly of the pre-replicative complex; Cell Cycle Checkpoints; Cell cycle |
| Function | ATP binding; DNA binding; DNA helicase activity; protein binding |