



## 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

<b>Antigen Description</b>	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.
<b>Immunogen</b>	MCM3 (NP_002379, 699 a.a. ~ 808 a.a) partial recombinant protein with GST tag. The sequence is AKDGDSYDPYDFSDTEEEMPQVHTPKTADSQETKESQKVELSESRLKAFKVALLDVFREA HAQSIGMNRLTESINRDSEEPFSSVEIQAALSKMQDDNQVMVSEGIIFLI
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Cell lysate), WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None

**Storage**

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

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## GENE INFORMATION

<b>Gene Name</b>	<a href="#">MCM3 minichromosome maintenance complex component 3 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	MCM3
<b>Synonyms</b>	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;
<b>Entrez Gene ID</b>	<a href="#">4172</a>
<b>Protein Refseq</b>	<a href="#">NP_001257401</a>
<b>UniProt ID</b>	<a href="#">B4DUQ9</a>
<b>Chromosome Location</b>	6p12
<b>Pathway</b>	Activation of ATR in response to replication stress; Assembly of the pre-replicative complex; Cell Cycle Checkpoints; Cell cycle
<b>Function</b>	ATP binding; DNA binding; DNA helicase activity; protein binding