

# Human DNA replication licensing factor MCM3 (MCM3) ELISA Kit



Catalog No: #EK9819

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Package Size: #EK9819-1 48T #EK9819-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human DNA replication licensing factor MCM3 (MCM3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	HCC5; MGC1157; P1-MCM3; P1.h; RLFB; DNA polymerase alpha holoenzyme-associated protein P1 DNA replication factor MCM3 MCM3 minichromosome maintenance deficient 3 cervical cancer proto-oncogene 5 hRI
Accession No.	P25205
Uniprot	P25205
GeneID	4172;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.058 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate MCM3 in samples. An antibody specific for MCM3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMCM3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MCM3 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MCM3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**MCM3 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 thus is acetylated by MCM3AP, a chromatin-associated acetyltransferase. The acetylation of this protein inhibits the initiation of DNA replication and cell cycle progression.

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Note: This product is for in vitro research use only