

MCM3 (Phospho Ser112) rabbit pAb

Catalog No: YP1398

Reactivity: Human; Rat; Mouse;

Applications: WB;ELISA;IHC

Target: MCM3

Fields: >>DNA replication;>>Cell cycle

P25205

P25206

Gene Name: MCM3

Protein Name: MCM3 (Ser112)

Human Gene ld: 4172

Human Swiss Prot

No:

Mouse Gene Id: 17215

Mouse Swiss Prot

No:

Immunogen: Synthesized phosho peptide around human MCM3 (Ser112)

Specificity: This antibody detects endogenous levels of Human MCM3 (phospho-Ser112)

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000

Purification: The antibody was affinity-purified from rabbit serum by affinity-chromatography

using specific immunogen.

Concentration: 1 mg/ml

1/2



Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 89kD

Cell Pathway: DNA replication; Cell_Cycle_G1S; Cell_Cycle_G2M_DNA;

Background: 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. [provided by RefSeq, Jul 2012],

Function: function: Acts as a factor that allows the DNA to undergo a single round of

replication per cell cycle. Required for DNA replication and cell

proliferation.,miscellaneous:Associated with the replication-specific DNA polymerase alpha.,PTM:Phosphorylated upon DNA damage, probably by ATM or

ATR.,similarity:Belongs to the MCM family.,similarity:Contains 1 MCM domain.,

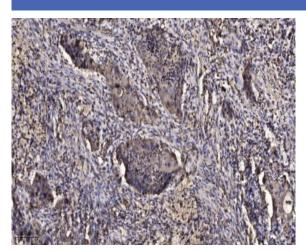
Subcellular Location:

Nucleus . Chromosome . Associated with chromatin before the formation of

nuclei and detaches from it as DNA replication progresses. .

Expression : Cervix, Coronary artery, Epithelium, Lymph, Osteosarcoma, Pancre

Products Images



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).