



MCM3 (phospho-Ser112) rabbit pAb

Catalog No	YP-Ab-16652
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA;IHC
Gene Name	MCM3
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
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Cervical cancer proto oncogene 5;DNA polymerase alpha holoenzyme associated P1;DNA polymerase alpha holoenzyme associated protein P1;DNA polymerase alpha holoenzyme-associated protein P1;DNA replication factor MCM3;DNA replication licensing factor mcm3;HCC 5;HCC5;hRlf beta subunit; Human cervical cancer proto oncogene 5;MCM 3;mcm3;MCM3 minichromosome maintenance deficient 3;MCM3_HUMAN;MGC1157; Minichromosome maintenance complex component 3;Minichromosome maintenance deficient 3;Minichromosome maintenance protein 3;P1 h;P1 MCM3;P1 Protein;P1-MCM3;P1.h;p12;P12 protein;Replication licensing factor beta subunit;RLF beta subunit;RLF subunit beta;RLFB;MCM3 (Ser112);DNA replication licensing factor MCM3 (EC 3.6.4.12) (DNA polymerase alpha holoenzyme-associated protein P1) (P1-MCM3) (RLF subunit beta) (p102)
Observed Band	89kD
Calculated Molecular Weight	89kD
Cell Pathway	Nucleus . Chromosome . Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses. .
Tissue Specificity	Cervix,Coronary artery,Epithelium,Lymph,Osteosarcoma,Pancre



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.,

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],

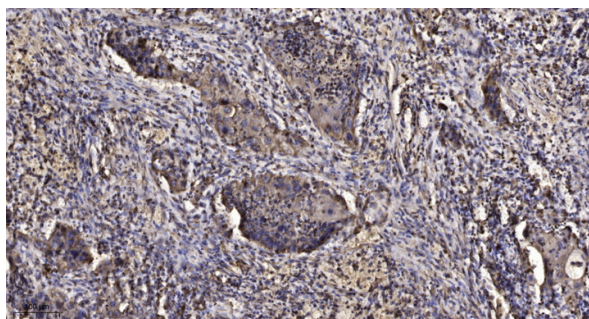
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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).