

MCM7 Polyclonal Antibody

YT5371 Catalog No:

Human; Mouse; Rat Reactivity:

Applications: WB;IHC;IF;ELISA

Target: MCM7

Fields: >>DNA replication;>>Cell cycle

Gene Name: MCM7

Protein Name: DNA replication licensing factor MCM7

P33993

Q61881

Human Gene Id: 4176

Human Swiss Prot

No:

Mouse Gene Id:

17220

Mouse Swiss Prot

No:

The antiserum was produced against synthesized peptide derived from the Immunogen:

Internal region of human MCM7. AA range:491-540

Specificity: MCM7 Polyclonal Antibody detects endogenous levels of MCM7 protein.

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

Source: Polyclonal, Rabbit, IgG

WB 1:500 - 1:2000. IHC: 1:100-1:300. ELISA: 1:20000.. IF 1:50-200 **Dilution:**

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

1/3



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

Observed Band: 81kD

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 essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by the 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. The MCM complex consisting of this protein and MCM2, 4 and 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumorsuppressor protein RB1/RB. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008],

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.

Required for S-phase checkpoint activation upon UV-induced

damage.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the MCM family.,similarity:Contains 1 MCM domain.,subunit:Interacts with the ATR-ATRIP complex and with RAD17.

Interacts with TIPIN.,

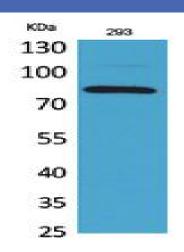
Subcellular Location:

Nucleus . Chromosome . Associated with chromatin before the formation of

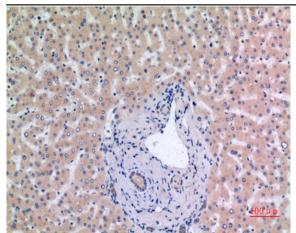
nuclei and detaches from it as DNA replication progresses. .

Expression: Brain, Cervix, Chronic myeloid leukemia cell, Lung,

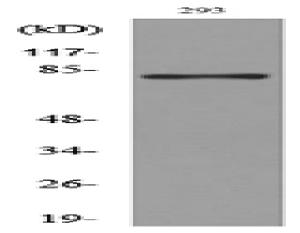
Products Images



Western Blot analysis of 293 cells using MCM7 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded humanliver, antibody was diluted at 1:100



Western blot analysis of lysate from 293 cells, using MCM7 Antibody.