

MCM4 Polyclonal Antibody

Catalog No: YT2681

Reactivity: Human; Mouse

Applications: WB;IHC;IF;ELISA

Target: MCM4

Fields: >>DNA replication;>>Cell cycle

Gene Name: MCM4

Protein Name: DNA replication licensing factor MCM4

P49717

Human Gene Id: 4173

Human Swiss Prot

iss Prot P33991

No:

Mouse Gene Id: 17217

Mouse Swiss Prot

No:

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

MCM4. AA range:20-69

Specificity: MCM4 Polyclonal Antibody detects endogenous levels of MCM4 protein.

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

Source: Polyclonal, Rabbit, IgG

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

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

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

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

Observed Band: 96kD

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 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, 6 and 7 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. The phosphorylation of this protein by CDC2 kinase reduces the DNA helicase activity and chromatin binding of the MCM complex. This gene is mapped to a region on the chromosome 8 head-to-head next to the

PRKDC/DNA-PK, a DNA-activated protein kinase involved in the repair of DNA

double-strand breaks. Alternatively spliced transcri

Function: function:Involved in the control of DNA replication.,similarity:Belongs to the MCM

family., similarity: Contains 1 MCM domain.,

Subcellular Nucleus . Chromosome . Associated with chromatin before the formation of

Location: nuclei and detaches from it as DNA replication progresses. .

Expression : Cervix, Epithelium, Testis,

Sort : 9467

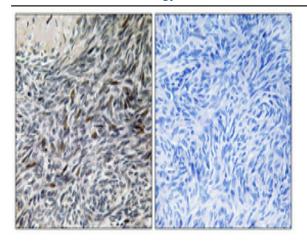
No4: 1

Host: Rabbit

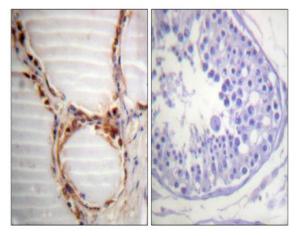
Modifications: Unmodified

Products Images

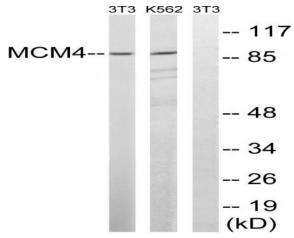
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Immunohistochemical analysis of paraffin-embedded Human ovary. Antibody was diluted at 1:100(4° overnight). Highpressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was preabsorbed by immunogen peptide.



Immunohistochemistry analysis of paraffin-embedded human testis tissue, using MCM4 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from NIH/3T3 and K562 cells, using MCM4 Antibody. The lane on the right is blocked with the synthesized peptide.