

Product Name: MCM4 (phospho Ser54) Rabbit Polyclonal Antibody
Catalog #: APRab04986

Summary

Production Name	MCM4 (phospho Ser54) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Mouse,Monkey

Performance

Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	MCM4
Alternative Names	MCM4; CDC21; DNA replication licensing factor MCM4; CDC21 homolog; P1-CDC21
Gene ID	4173.0
SwissProt ID	P33991.The antiserum was produced against synthesized peptide derived from human MCM4 around the phosphorylation site of Ser54. AA range:20-69

Application

Dilution Ratio	WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200
Molecular Weight	85kDa

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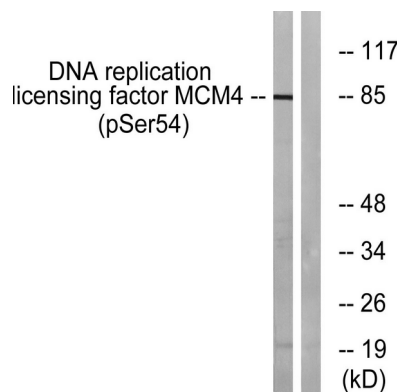
Background

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 transcript function: Involved in the control of DNA replication., similarity: Belongs to the MCM family., similarity: Contains 1 MCM domain.,

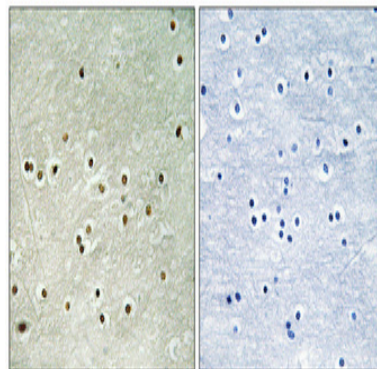
Research Area

DNA replication; Cell_Cycle_G1S; Cell_Cycle_G2M_DNA;

Image Data



Western blot analysis of lysates from COS7 cells treated with nocodazole 1ug/ml 16h, using MCM4 (Phospho-Ser54) Antibody. The lane on the right is blocked with the phospho peptide.



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Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4°,overnight) . High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

Note

For research use only.