



MCM4 (phospho Ser54) Polyclonal Antibody

Catalog No	YP-Ab-16603
Isotype	IgG
Reactivity	Human;Mouse;Monkey
Applications	WB;IHC;IF;ELISA
Gene Name	MCM4
Protein Name	DNA replication licensing factor MCM4
Immunogen	The antiserum was produced against synthesized peptide derived from human MCM4 around the phosphorylation site of Ser54. AA range:20-69
Specificity	Phospho-MCM4 (S54) Polyclonal Antibody detects endogenous levels of MCM4 protein only when phosphorylated at S54.
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 antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MCM4; CDC21; DNA replication licensing factor MCM4; CDC21 homolog; P1-CDC21
Observed Band	85kD
Cell Pathway	Nucleus . Chromosome . Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses. .
Tissue Specificity	Cervix,Epithelium,Testis,
Function	function:Involved in the control of DNA replication.,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 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

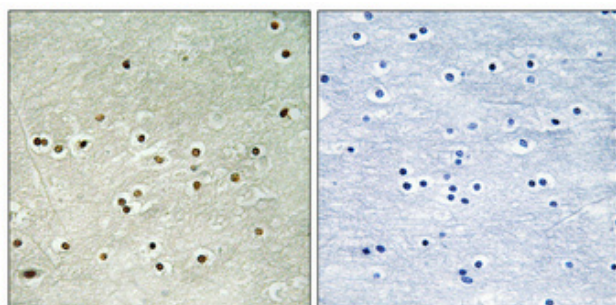
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

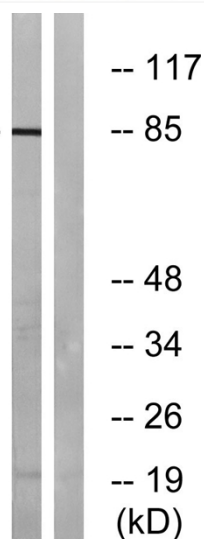
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Immunohistochemical analysis of paraffin-embedded Human 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) obtained from antibody was pre-absorbed by immunogen peptide.

DNA replication
licensing factor MCM4 --
(pSer54)



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.