



# MCM4 rabbit pAb

Cat No.:ES6208

For research use only

## Overview

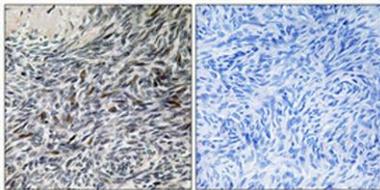
<b>Product Name</b>	MCM4 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human MCM4. AA range:20-69
<b>Specificity</b>	MCM4 Polyclonal Antibody detects endogenous levels of MCM4 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	DNA replication licensing factor MCM4
<b>Gene Name</b>	MCM4
<b>Cellular localization</b>	Nucleus . Chromosome . Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses. .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	96kD
<b>Human Gene ID</b>	4173
<b>Human Swiss-Prot Number</b>	P33991
<b>Alternative Names</b>	MCM4; CDC21; DNA replication licensing factor MCM4; CDC21 homolog; P1-CDC21
<b>Background</b>	The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation



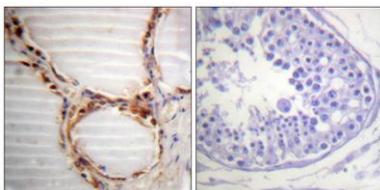


of eukaryotic genome replication. The hexameric protein complex formed by MCM proteins is a key component of the pre-replication complex (pre\_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. The MCM complex consisting of 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

Immunohistochemical analysis of paraffin-embedded Human ovary. 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 i

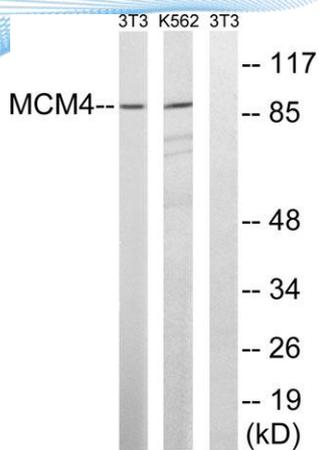


Immunohistochemistry analysis of paraffin-embedded human testis tissue, using MCM4 Antibody. The picture on the right is blocked with the synthesized peptide.





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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.



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