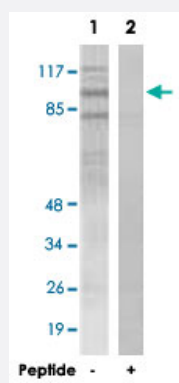


MCM4 polyclonal antibody

Catalog # PAB18343 Size 100 ug

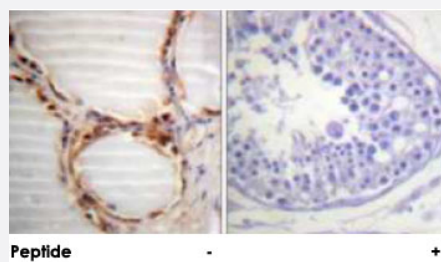
Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from HepG2 cells, using MCM4 polyclonal antibody (Cat # PAB18343).

Peptide "+" means "peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human testis tissue using MCM4 polyclonal antibody (Cat # PAB18343).

Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MCM4.
Immunogen	A synthetic peptide corresponding to residues surrounding S54 of human MCM4.
Host	Rabbit
Reactivity	Human, Mouse
Specificity	This antibody is specific to MCM4.
Form	Liquid

Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from HepG2 cells, using MCM4 polyclonal antibody (Cat # PAB18343).
Peptide "+" means "peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human testis tissue using MCM4 polyclonal antibody (Cat # PAB18343).
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- Enzyme-linked Immunoabsorbent Assay

Gene Info — MCM4

Entrez GeneID	4173
Protein Accession#	P33991
Gene Name	MCM4
Gene Alias	CDC21, CDC54, MGC33310, P1-CDC21, hCdc21
Gene Description	minichromosome maintenance complex component 4
Omim ID	602638
Gene Ontology	Hyperlink

Gene Summary

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 variants encoding the same protein have been reported. [provided by RefSeq]

Other Designations

DNA replication licensing factor MCM4|MCM4 minichromosome maintenance deficient 4|homolog of S. pombe cell division cycle 21|minichromosome maintenance deficient 4

Publication Reference

- [The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection \(MGC\).](#)

Gerhard DS, Wagner L, Feingold EA, Shenmen CM, Grouse LH, Schuler G, Klein SL, Old S, Rasooly R, Good P, Guyer M, Peck AM, Derge JG, Lipman D, Collins FS, Jang W, Sherry S, Feolo M, Misquitta L, Lee E, Rotmistrovsky K, Greenhut SF, Schaefer CF, Buetow K, Bonner TI, Haussler D, Kent J, Kiekhäus M, Furey T, Brent M, Prange C, Schreiber K, Shapiro N, Bhat NK, Hopkins RF, Hsie F, Driscoll T, Soares MB, Casavant TL, Scheetz TE, Brownstein MJ, Usdin TB, Toshiyuki S, Carninci P, Piao Y, Dudekula DB, K

Genome Research 2004 Oct; 14(10B):2121.

Pathway

- [Cell cycle](#)
- [DNA replication](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Occupational Diseases](#)