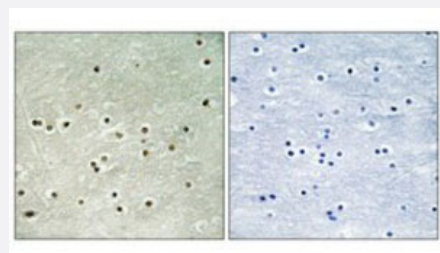


MCM4 (phospho S54) polyclonal antibody

Catalog # PAB31662 Size 100 uL

Applications



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

Immunohistochemical staining of human brain (left). Negative control was pre-absorbed by immunogen peptide (right).

Specification

Product Description Rabbit polyclonal antibody raised against synthetic peptide of human MCM4 (phospho S54).

Immunogen A synthetic peptide corresponding to amino acids 30-110 of human MCM4 (phospho S54).

Host Rabbit

Reactivity Human, Monkey, Mouse

Specificity This antibody detects endogenous levels of MCM4 protein only when phosphorylated at S54.

Form Liquid

Purification Affinity purification

Isotype IgG

Recommend Usage
 ELISA (1:20000)
 Immunohistochemistry (1:100-300)
 Western Blot (1:500-2000)
 The optimal working dilution should be determined by the end user.

Storage Buffer In PBS (50% glycerol, 0.5% BSA and 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
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
Immunohistochemical staining of human brain (left). Negative control was pre-absorbed by immunogen peptide (right).
- 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

Pathway

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

Disease

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