

MCM4 (Human) Cell-Based ELISA Kit

Catalog # KA2984

Size 1 Kit

Specification

Product Description	MCM4 (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative determination of MCM4 expression in cultured cells.
Suitable Sample	Attached Cell, Loosely Attached Cell, Suspension Cell
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
Reactivity	Human, Mouse
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Qualitative

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](#)