

MCM4 monoclonal antibody (M01), clone 1A6

Catalog # H00004173-M01

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant MCM4.
Immunogen	MCM4 (AAH31061, 267 a.a. ~ 366 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	KTKNMRNLNPEDIDQLITISGMVIRTSQLIPEMQEAFQCQVCAHTTRVEMDRGRIAEP SVCGRCHT THSMALIHNRSLFSDKQMIKLQESPEDMPAGQT
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- ELISA

Gene Info — MCM4

Entrez GeneID	4173
GeneBank Accession#	BC031061
Protein Accession#	AAH31061
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	<p>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]</p>
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](#)