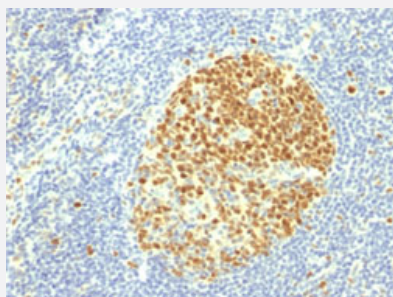


# MCM7 monoclonal antibody, clone MCM7/1469

Catalog # MAB14848      Size 100 ug

## Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with MCM7 monoclonal antibody, clone MCM7/1469 (Cat # MAB14848).

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against partial recombinant human MCM7.
<b>Immunogen</b>	Recombinant protein corresponding to amino acids 195-319 of human MCM7.
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	88
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein A/G purification
<b>Isotype</b>	IgG2b, kappa
<b>Recommend Usage</b>	Flow Cytometry (0.5-1 ug/10 <sup>6</sup> cells) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 10 mM PBS.

## Storage Instruction

Store at -20 to -80°C.  
Aliquot to avoid repeated freezing and thawing.

## Applications

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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with MCM7 monoclonal antibody, clone MCM7/1469 (Cat # MAB14848).

- Immunofluorescence
- Flow Cytometry

## Gene Info — MCM7

Entrez GeneID [4176](#)

Protein Accession# [P33993](#)

Gene Name MCM7

Gene Alias CDABP0042, CDC47, MCM2, P1.1-MCM3, P1CDC47, P85MCM, PNAS-146

Gene Description minichromosome maintenance complex component 7

Omim ID [600592](#)

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 the 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, 4 and 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumor suppressor protein RB1/RB. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]

**Other Designations**

DNA replication licensing factor MCM7|MCM7 minichromosome maintenance deficient 7|homolog of *S. cerevisiae* Cdc47|minichromosome maintenance deficient 7

## Publication Reference

- [A common set of conserved motifs in a vast variety of putative nucleic acid-dependent ATPases including MCM proteins involved in the initiation of eukaryotic DNA replication.](#)

Koonin EV.

Nucleic Acids Research 1993 Jun; 21(11):2541.

## Pathway

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

## Disease

- [Autistic Disorder](#)
- [Genetic Predisposition to Disease](#)