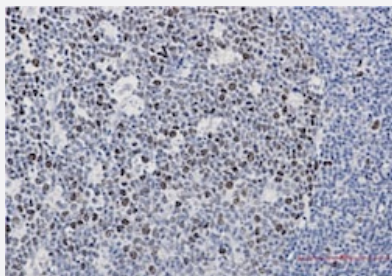


RecomAb™

# MCM2 (phospho Ser40) recombinant monoclonal antibody, clone R03-1B3

Catalog # RAB01781      Size 100 uL

## Applications



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

Immunohistochemical staining (Paraffin-embedded sections) of human tonsil with MCM2 (phospho Ser40) recombinant monoclonal antibody, clone R03-1B3 (Cat # RAB01781). High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

## Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human MCM2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surrounding Ser40 of human MCM2.
Theoretical MW (kDa)	Calculated MW: 102 k
Reactivity	Human, Mouse
Form	Liquid
Purification	Affinity purification
Isotype	IgG

<b>Recommend Usage</b>	Immunohistochemistry (1/50-1/100) Immunoprecipitation (1/20) Western Blot (1/500-1/1000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
<b>Storage Instruction</b>	Store at -20 °C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	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)  

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- Immunoprecipitation

## Gene Info — MCM2

<b>Entrez GeneID</b>	<a href="#">4171</a>
<b>Protein Accession#</b>	<a href="#">P49736</a>
<b>Gene Name</b>	MCM2
<b>Gene Alias</b>	BM28, CCNL1, CDCL1, D3S3194, KIAA0030, MGC10606, MITOTIN, cdc19
<b>Gene Description</b>	minichromosome maintenance complex component 2
<b>Omim ID</b>	<a href="#">116945</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>

**Gene Summary**

The protein encoded by this gene is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in 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. This protein forms a complex with MCM4, 6, and 7, and has been shown to regulate the helicase activity of the complex. This protein is phosphorylated, and thus regulated by, protein kinases CDC2 and CDC7. [provided by RefSeq]

**Other Designations**

DNA replication licensing factor MCM2|MCM2 minichromosome maintenance deficient 2, mitotin|cell division cycle-like 1|cyclin-like 1|minichromosome maintenance deficient 2 (mitotin)|nuclear protein BM28

**Pathway**

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

**Disease**

- [Genetic Predisposition to Disease](#)
- [Ovarian Neoplasms](#)