

**Phospho-MCM2 (Ser40) Rabbit mAb**  
**Catalog # AP76349****Specification****Phospho-MCM2 (Ser40) Rabbit mAb - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P49736</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	101896

**Phospho-MCM2 (Ser40) Rabbit mAb - Additional Information****Gene ID** 4171**Other Names**  
MCM2**Dilution**  
WB~~1/500-1/1000  
IHC~~1/50-1/100**Format**  
Liquid**Phospho-MCM2 (Ser40) Rabbit mAb - Protein Information****Name** MCM2 ([HGNC:6944](#))**Function**

Acts as a component of the MCM2-7 complex (MCM complex) which is the replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. Core component of CDC45-MCM-GINS (CMG) helicase, the molecular machine that unwinds template DNA during replication, and around which the replisome is built (PubMed:[32453425](http://www.uniprot.org/citations/32453425), PubMed:[34694004](http://www.uniprot.org/citations/34694004), PubMed:[34700328](http://www.uniprot.org/citations/34700328), PubMed:[35585232](http://www.uniprot.org/citations/35585232)). The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity (PubMed:[32453425](http://www.uniprot.org/citations/32453425)). Required for the entry in S phase and for cell division (PubMed:[8175912](http://www.uniprot.org/citations/8175912)). Plays a role in terminally differentiated hair cells development of the cochlea and induces cells apoptosis (PubMed:[26196677](http://www.uniprot.org/citations/26196677)).

**Cellular Location**

Nucleus. Chromosome. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses. {ECO:0000250|UniProtKB:P55861}

**Phospho-MCM2 (Ser40) Rabbit mAb - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Phospho-MCM2 (Ser40) Rabbit mAb - Images**

