

# MCM2 (1K1) Rabbit Monoclonal Antibody MCM2 (1K1) Rabbit Monoclonal Antibody Catalog # AP93651

## **Specification**

# MCM2 (1K1) Rabbit Monoclonal Antibody - Product Information

Application WB, IHC, IF, FC, ICC Primary Accession P49736
Reactivity Rat, Human, Mouse Monoclonal Calculated MW 101896

#### MCM2 (1K1) Rabbit Monoclonal Antibody - Additional Information

#### **Gene ID 4171**

#### **Other Names**

DNA replication licensing factor MCM2, 3.6.4.12, Minichromosome maintenance protein 2 homolog, Nuclear protein BM28, MCM2 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=6944" target="blank">HGNC:6944</a>)

# **Dilution**

WB~~1:1000 IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50 ICC~~N/A

## **Storage Conditions**

-20°C

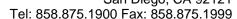
#### MCM2 (1K1) Rabbit Monoclonal Antibody - Protein Information

#### 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:<a href="http://www.uniprot.org/citations/32453425" target="\_blank">32453425</a>, PubMed:<a href="http://www.uniprot.org/citations/34694004" target="\_blank">34694004</a>, PubMed:<a href="http://www.uniprot.org/citations/34700328" target="\_blank">34700328</a>, PubMed:<a href="http://www.uniprot.org/citations/35585232" target="\_blank">35585232</a>). 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:<a href="http://www.uniprot.org/citations/32453425" target=" blank">32453425</a>). Required for the entry in S phase and for cell division (PubMed: <a

href="http://www.uniprot.org/citations/8175912" target="\_blank">8175912</a>). Plays a role in terminally differentiated hair cells development of the cochlea and induces cells apoptosis (PubMed:<a href="http://www.uniprot.org/citations/26196677" target=" blank">26196677</a>).

#### **Cellular Location**

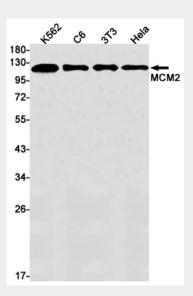
Nucleus. Chromosome. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses. {ECO:0000250|UniProtKB:P55861}

## MCM2 (1K1) Rabbit Monoclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# MCM2 (1K1) Rabbit Monoclonal Antibody - Images



Western blot detection of MCM2 in K562,C6,3T3,Hela cell lysates using MCM2 antibody(1:1000 diluted).