

**MCM7 antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI11011****Specification**

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**MCM7 antibody - middle region - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P33993</a>
Other Accession	<a href="#">NM_005916</a> , <a href="#">NP_005907</a>
Reactivity	Human, Rat, Rabbit, Horse, Bovine
Predicted	Human, Rat, Rabbit, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81kDa KDa

**MCM7 antibody - middle region - Additional Information****Gene ID** 4176

Alias Symbol	MCM2, CDC47, P85MCM, P1CDC47, PNAS146, P1.1-MCM3
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**Other Names**

DNA replication licensing factor MCM7, 3.6.4.12, CDC47 homolog, P1.1-MCM3, MCM7, CDC47, MCM2

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 100 ul of distilled water. Final anti-MCM7 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

MCM7 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

**MCM7 antibody - middle region - Protein Information**

**Name** MCM7 ([HGNC:6950](#))

**Synonyms** CDC47, MCM2

**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/25661590" target="\_blank">25661590</a>, 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>, PubMed:<a href="http://www.uniprot.org/citations/9305914" target="\_blank">9305914</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 S-phase checkpoint activation upon UV-induced damage.

#### Cellular Location

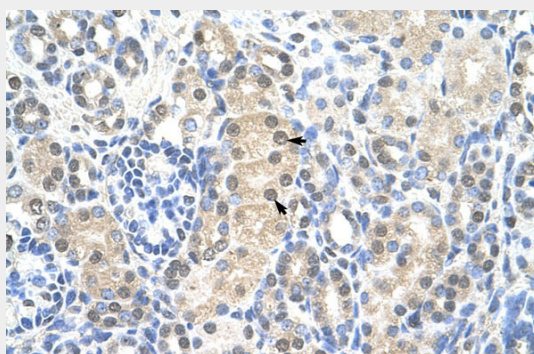
Nucleus. Chromosome. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses.

#### MCM7 antibody - middle region - Protocols

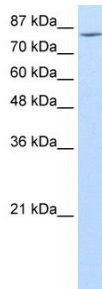
Provided below are standard protocols that you may find useful for product applications.

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

#### MCM7 antibody - middle region - Images



Human kidney



WB Suggested Anti-MCM7 Antibody Titration: 1.25µg/ml

Positive Control: Daudi cell lysate

MCM7 is strongly supported by BioGPS gene expression data to be expressed in Human Daudi cells

### **MCM7 antibody - middle region - References**

Ren,B., (2006) Oncogene 25 (7), 1090-1098  
Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.