

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

MCM7 antibody - middle region - Product Information

Application	IHC, WB
Primary Accession	P33993
Other Accession	NM_005916 , NP_005907
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:25661590, PubMed:32453425, PubMed:34694004, PubMed:34700328, PubMed:35585232, PubMed:9305914). 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). Required for S-phase checkpoint activation upon UV-induced damage.

Cellular Location

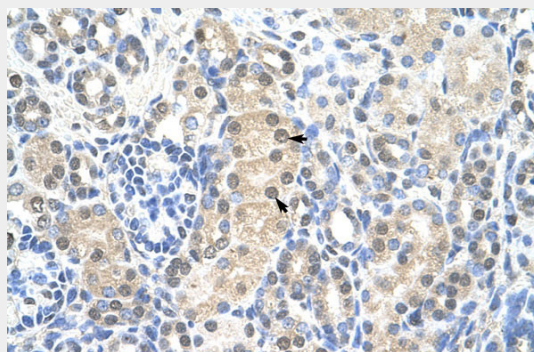
Nucleus. Chromosome. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses.

MCM7 antibody - middle region - Protocols

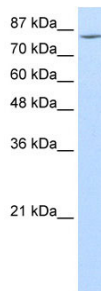
Provided below are standard protocols that you may find useful for product applications.

- [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 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.