

Specification

Application	WB, FC, ICC
Primary Accession	P33993
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted , 81 kDa , observed , 81 kDa
Gene Name	KDa
Aliases	MCM7 MCM7; Minichromosome Maintenance Complex Component 7; P1CDC47; MCM2; P85MCM; CDC47; PNAS146; P1.1-MCM3; DNA Replication Licensing Factor MCM7; CDC47 Homolog; Homolog Of S. Cerevisiae Cdc47; MCM7 Minichromosome Maintenance Deficient 7 (S. Cerevisiae); Minichromosome Maintenance Deficient 7; Minichromosome Maintenance Deficient (S. Cerevisiae) 7; EC 3.6.4.12
Immunogen	A synthesized peptide derived from human MCM7

Gene ID **4176**
Other Names
 DNA replication licensing factor MCM7, 3.6.4.12, CDC47 homolog, P1.1-MCM3, MCM7 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=6950), CDC47, MCM2

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:<a

[34694004](http://www.uniprot.org/citations/34694004), PubMed: [34700328](http://www.uniprot.org/citations/34700328), PubMed: [35585232](http://www.uniprot.org/citations/35585232), PubMed: [9305914](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/32453425)). Required for S-phase checkpoint activation upon UV-induced damage.

Cellular Location

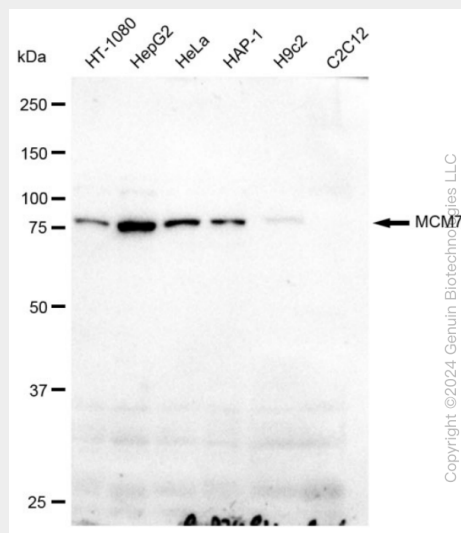
Nucleus. Chromosome. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses.

KD-Validated Anti-MCM7 Rabbit Monoclonal Antibody - 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](#)

KD-Validated Anti-MCM7 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-MCM7 antibody (Cat#AGI2296). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-MCM7 antibody (Cat#AGI2296, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

