

**MCM4 antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI11013****Specification**

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**MCM4 antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">P33991</a>
Other Accession	<a href="#">NM_182746</a> , <a href="#">NP_877423</a>
Reactivity	Human, Mouse, Rat, Rabbit, Horse, Bovine, Dog
Predicted Host	Human, Mouse, Rat, Rabbit, Bovine
Clonality	Rabbit
Calculated MW	Polyclonal 95kDa KDa

**MCM4 antibody - N-terminal region - Additional Information****Gene ID** 4173**Alias Symbol** CDC21, CDC54, hCdc21, P1-CDC21**Other Names**

DNA replication licensing factor MCM4, 3.6.4.12, CDC21 homolog, P1-CDC21, MCM4, CDC21

**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-MCM4 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**

MCM4 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**MCM4 antibody - N-terminal region - Protein Information****Name** MCM4 ([HGNC:6947](#))**Synonyms** CDC21**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:&lt;a href="http://www.uniprot.org/citations/16899510" target="\_blank"&gt;16899510&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/25661590" target="\_blank"&gt;25661590&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/25661590" target="\_blank"&gt;25661590&lt;/a&gt;).

[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)>, 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:<[16899510](http://www.uniprot.org/citations/16899510)>, PubMed:<[25661590](http://www.uniprot.org/citations/25661590)>, PubMed:<[32453425](http://www.uniprot.org/citations/32453425)>, PubMed:<[9305914](http://www.uniprot.org/citations/9305914)>).

### Cellular Location

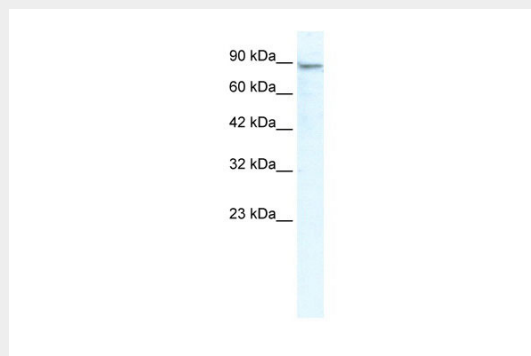
Nucleus. Chromosome. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses.

### MCM4 antibody - N-terminal 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](#)

### MCM4 antibody - N-terminal region - Images



WB Suggested Anti-MCM4 Antibody Titration: 2.5µg/ml

ELISA Titer: 1:62500

Positive Control: Jurkat cell lysate

MCM4 is strongly supported by BioGPS gene expression data to be expressed in Human Jurkat cells

### MCM4 antibody - N-terminal region - References

Ishimi, Y., et al., (2003) J. Biol. Chem. 278 (27), 24644-24650  
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.