

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

MCM4 antibody - N-terminal region - Product Information

Application	WB
Primary Accession	P33991
Other Accession	NM_182746 , NP_877423
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:16899510, PubMed:25661590, PubMed:25661590).

[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

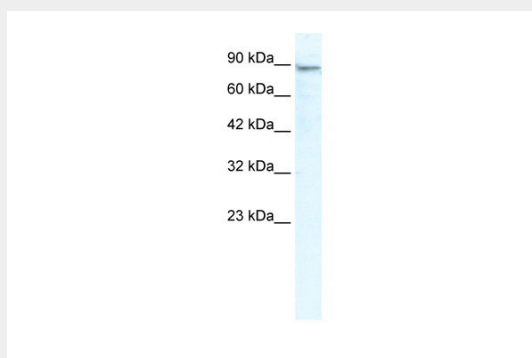
Nucleus. Chromosome. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses.

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 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to

prevent freeze-thaw cycles.