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MCM3 antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI11009

Specification

MCM3 antibody - C-terminal region - Product Information

Application	**WB, IHC**
Primary Accession	P25205
Other Accession	NM_002388, NP_002379
Reactivity	**Human, Mouse, Rat, Rabbit, Horse, Yeast, Bovine, Dog**
Predicted	**Human, Mouse, Rat, Chicken, Horse, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**91kDa KDa**

MCM3 antibody - C-terminal region - Additional Information

Gene ID 4172

Alias Symbol **HCC5, MGC1157, P1-MCM3, P1.h, RLFB**

Other Names
DNA replication licensing factor MCM3, 3.6.4.12, DNA polymerase alpha holoenzyme-associated protein P1, P1-MCM3, RLF subunit beta, p102, MCM3

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

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-MCM3 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
MCM3 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

MCM3 antibody - C-terminal region - Protein Information

Name MCM3 (HGNC:6945)

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:32453425, PubMed:34694004, PubMed:<a

href="http://www.uniprot.org/citations/34700328" target="_blank">34700328, PubMed:35585232). 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 the entry in S phase and for cell division (Probable).

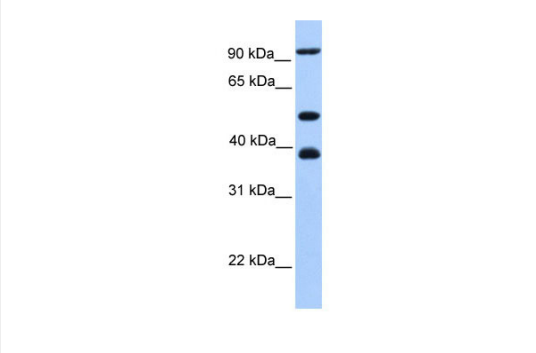
Cellular Location
Nucleus. Chromosome. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses.

MCM3 antibody - C-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 Cytomety
- Cell Culture

MCM3 antibody - C-terminal region - Images



WB Suggested Anti-MCM3 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: 721_B cell lysate
MCM3 is supported by BioGPS gene expression data to be expressed in 721_B

MCM3 antibody - C-terminal region - References

Lin,D.I., (2008) Proc. Natl. Acad. Sci. U.S.A. 105 (23), 8079-8084 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.