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Mouse Mcm2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP19218b

Specification

Mouse Mcm2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P97310

Mouse Mcm2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 17216

Other Names
DNA replication licensing factor MCM2, Minichromosome maintenance protein 2 homolog, Nuclear protein BM28, Mcm2, Bm28, Cdcl1, Kiaa0030, Mcmd2

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Mcm2 Antibody (C-term) Blocking Peptide - Protein Information

Name Mcm2

Synonyms Bm28, Cdcl1, Kiaa0030, Mcmd2

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. 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. Required for the entry in S phase and for cell division (PubMed:10567526). Plays a role in terminally differentiated hair cells development of the cochlea and induces cells apoptosis (By similarity).

Cellular Location
Nucleus {ECO:0000250|UniProtKB:P49736}. Chromosome {ECO:0000250|UniProtKB:P49736}. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA

replication progresses. {ECO:0000250|UniProtKB:P55861}

Mouse Mcm2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

Mouse Mcm2 Antibody (C-term) Blocking Peptide - Images

Mouse Mcm2 Antibody (C-term) Blocking Peptide - Background

Mcm2 acts as a factor that allows the DNA to undergo a single round of replication per cell cycle. Required for the entry in S phase and for cell division.

Mouse Mcm2 Antibody (C-term) Blocking Peptide - References

Kunnev, D., et al. Oncogene 29(25):3630-3638(2010)Chuang, C.H., et al. PLoS Genet. 6 (9) (2010) :Lee, E.Y., et al. Dev. Biol. 332(1):104-115(2009)Hasegawa, M., et al. Leuk. Res. 33(8):1100-1107(2009)Breunig, J.J., et al. Proc. Natl. Acad. Sci. U.S.A. 105(35):13127-13132(2008)