

MCM2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9377c**Specification****MCM2 Antibody (Center) Blocking Peptide -
Product Information**Primary Accession [P49736](#)**MCM2 Antibody (Center) Blocking Peptide -
Additional Information**

Gene ID 4171

Other NamesDNA replication licensing factor MCM2,
Minichromosome maintenance protein 2
homolog, Nuclear protein BM28, MCM2,
BM28, CCNL1, CDCL1, KIAA0030**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.**MCM2 Antibody (Center) Blocking Peptide -
Protein Information**

Name MCM2

Synonyms BM28, CCNL1, CDCL1,
KIAA0030**Function**Acts as component of the MCM2-7 complex
(MCM complex) which is the putative
replicative helicase essential for 'once per
cell cycle' DNA replication initiation and
elongation in eukaryotic cells. The active**MCM2 Antibody (Center) Blocking Peptide
- Background**

MCM2 is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are involved in the initiation of eukaryotic genome replication. The hexameric protein complex formed by MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. This protein forms a complex with MCM4, 6, and 7, and has been shown to regulate the helicase activity of the complex. This protein is phosphorylated, and thus regulated by, protein kinases CDC2 and CDC7.

**MCM2 Antibody (Center) Blocking Peptide
- References**

Saade, E., et al. Proteomics
9(21):4934-4943(2009)Xu, X., et al. EMBO J.
28(19):3005-3014(2009)Liaw, K., et al. J.
Cutan. Pathol. 36(10):1121-1122(2009)Im, J.S.,
et al. Proc. Natl. Acad. Sci. U.S.A.
106(37):15628-15632(2009)Chuang, L.C., et al.
Mol. Cell 35(2):206-216(2009)

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. Plays a role in terminally differentiated hair cells development of the cochlea and induces cells apoptosis.

Cellular Location

Nucleus. Chromosome

{ECO:0000250|UniProtKB:P55861}.

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

{ECO:0000250|UniProtKB:P55861}

**MCM2 Antibody (Center) Blocking Peptide
- Protocols**

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

- [Blocking Peptides](#)