

**MCM2 Antibody (aa21-31)  
Rabbit Polyclonal Antibody  
Catalog # ALS11341****Specification**

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**MCM2 Antibody (aa21-31) - Product Information**

Application	IHC
Primary Accession	<a href="#">P49736</a>
Reactivity	Human, Mouse, Rat, Yeast
Host	Rabbit
Clonality	Polyclonal
Calculated MW	102kDa KDa

**MCM2 Antibody (aa21-31) - Additional Information****Gene ID** 4171**Other Names**

DNA replication licensing factor MCM2, 3.6.4.12, Minichromosome maintenance protein 2 homolog, Nuclear protein BM28, MCM2, BM28, CCNL1, CDCL1, KIAA0030

**Target/Specificity**

Amino acids 21-31 of human MCM2 protein (see below).

**Reconstitution & Storage**

Aliquot and store at -20°C. Minimize freezing and thawing.

**Precautions**

MCM2 Antibody (aa21-31) is for research use only and not for use in diagnostic or therapeutic procedures.

**MCM2 Antibody (aa21-31) - Protein Information****Name** MCM2 ([HGNC:6944](#))**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](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)). 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:[35585232](#)).

href="http://www.uniprot.org/citations/32453425" target="\_blank">32453425</a>). Required for the entry in S phase and for cell division (PubMed:<a href="http://www.uniprot.org/citations/8175912" target="\_blank">8175912</a>). Plays a role in terminally differentiated hair cells development of the cochlea and induces cells apoptosis (PubMed:<a href="http://www.uniprot.org/citations/26196677" target="\_blank">26196677</a>).

#### Cellular Location

Nucleus. Chromosome. Note=Associated with chromatin before the formation of nuclei and detaches from it as DNA replication progresses. {ECO:0000250|UniProtKB:P55861}

#### Volume

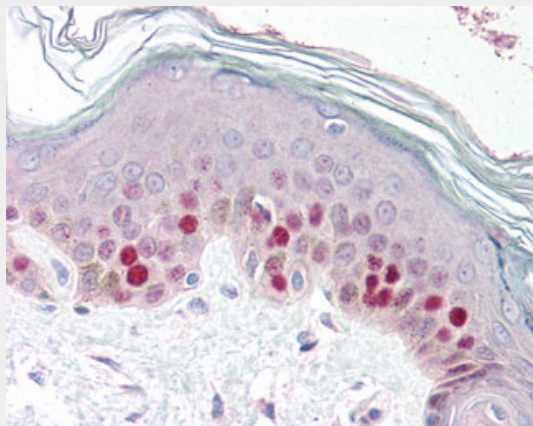
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### MCM2 Antibody (aa21-31) - Protocols

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](#)

### MCM2 Antibody (aa21-31) - Images



Anti-MCM2 antibody IHC of human skin.

### MCM2 Antibody (aa21-31) - Background

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 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.

### MCM2 Antibody (aa21-31) - References

Todorov I.T.,et al.J. Cell Sci. 107:253-265(1994).  
Nomura N.,et al.DNA Res. 1:27-35(1994).  
Mimura S.,et al.Submitted (MAR-1996) to the EMBL/GenBank/DDBJ databases.  
Kalnine N.,et al.Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.  
Mincheva A.,et al.Cytogenet. Cell Genet. 65:276-277(1994).